

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7215

agcttcaacc aaaggatggt ttttctttgt cttgaaagga taaatgacaa tgcatacaag 60  
 attgaattgc cgggtgagta taatgtgagt actacattta atgtgtctaa cttagctctt 120  
 tttgatgcag atggagaagt caatttgagg aaaaatcctt ttgaagaggg agagagtgat 180  
 gaggacatgg caaggactaa gggcaaggaa cctttagaag gacttggagg acctatgaca 240  
 aggggttgaa caaagaaggc caaggaagct cttcaacacg tgttaaccat gctatttgaa 300  
 tttaggccca agttacaagt ggagaagttt cggattgtca attgcacat gttccaagaa 360  
 gagtagaggg tgccaccttt gttgagtgtt tttattagca ttntgttagt tgaaataaag 420  
 gcccaaactt gtg 433

<210> 7216  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7216

accttgagca attcaaacga caattacgtt tttaagtatg ttcgatngag tcccgtaatg 60  
 tatcgaaacg ttcgaaattg aatgctgatg ctctcagcaa attcaaaaga caataacttt 120  
 tatctcgggt gtgtgattga gtcccgtgat atatcgacat gctcgaaatt gaatgttgat 180  
 gctctgagca aattcaaact acaataactt tttactcgga tgtctgattg attcccgtaa 240  
 tatatcgaga cgctcgaaat tgaataccgg aactctaaga aaattccaac cgaccatacc 300  
 ttt 303

<210> 7217  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <400> 7217

agcttcagaa ttcaatTTTT cgcgtctcaa tatattacgg gactcaatca gacatccaag 60  
 caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatgggtctcg 120



atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgct 180  
gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240  
gagtaaaaag ttatcgctcg ttgaatttgg tcagagcttc aacattcagt ttagagcgtc 300  
tcgatatatt acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaaaatc 360  
ctcagagctt cgggtattcaa tttcgagcgt cttgatatat tacgggactc aatcagacat 420  
ccgag 425

<210> 7218  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7218

agctntgccg ccacggaatt tccgactatg ttcttgtgtg gtggaacaag ctacaaaagg 60  
agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120  
ggaagcgata tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaattattga agaagatgag gaggtaacta tggctcaatt tcttaatggt ttgactaatg 300  
atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgaattg cttcaciaag 360  
caatccaagt agagcaacaa ttaanaagga aaggagtggc taagaggagt tttaccaact 420  
ttggttcttc tagttggaa 439

<210> 7219  
<211> 336  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7219

tcacctctca atgagctggt gaagaaaatg tggcatttac ctgggggtgaa aaacaagagc 60  
aagcctttgc tttgctcaaa gaaaagctta ctaaggcacc tgttctagct cttcctgact 120  
tttctaaaac ttttaagcta gaatgtgatg cctctggagt gggagttaga gttgtattgt 180  
tacaagggtg gcacctatt gcttatttta gtgaaaaact tcatagtgcc accctcaact 240

acccaccta tgataaagag ctntatgcct taataagagc ccctcanact tgggaacatt 300  
tccttgtttg caggaatttg tcttcatagt gatcac 336

<210> 7220  
<211> 458  
<212> DNA  
<213> Glycine max  
  
<400> 7220

ccgggacctt aagcacctgc agctgcagct tgatgttggt taatgtctaa attatttata 60  
ccaaaagcaa gaaattaggt gcatatagag atacaaacgc cttggaattg atgcatacag 120  
acatttggtg gccatttcat acacctttat ggaatgggtca acaatatttt atatcattca 180  
taaacgatta ctccagatat gcatacatgt ttcttataca tgaaaagtca caatctctgg 240  
atgtgttcaa aacattttaat gttgaagttg aaaatcatct caacaaaaga attaagagtg 300  
ttagatctga ctgtgggtgg gaatactatg gtagatatga cgggttcaggt gaacaacatt 360  
cggggccttt tgctatgcac ctagaggaat gtggaatcat tccatagtac accattccag 420  
ggtcacctag cgtgaatgat gtggctaaaa gatgaaat 458

<210> 7221  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<400> 7221

tcatagttat tattataaca cagctaccca tattaaacat acttcatcta atactttttt 60  
ttgggggggaa tcaatgagaa tgagaaacat ccacacaact ttgcaggggac ataagcatga 120  
aagcattgtg acaaaaatac tcaattagaa gagaagaaaa tgagagttaa ttgacaaagc 180  
tcgctcaata ataatacaata ttcatataa gaatatctcc cagcaatgtt tcatcaaatt 240  
ctgctttaca caaaaaaaaa aaaaatcacc aaactttgct tgagggttca agcaatcccc 300  
taacaaattc caaacacaaa cttttgtgta tcactctgaa aaatataaac gaatactata 360  
tagatcataa cagtcatgat ctctccctag aaaaacctaa gcttggttcaa gacagttctc 420  
ctttgctgga gaaaga 436

<210> 7222  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7222

tagtttggtta caactgggggt aattatcagt ttaatttggt agttatgngg accaacttat 60  
 caacaaatct ccaccttggt tacataacta aacaaggatc aaagtgggtg ctcccttttt 120  
 tgacatcaga ctagctgaca ttacttcaaa tttataaggt ccaggcagta gaaaaacttg 180  
 atgcttggtga gaactttagt gatcatatga gagggattat gcttagtgga gactttctag 240  
 acaaacacaa ctcccttcata aataatctct ctcaaaagt gtagcttcac atctacatgt 300  
 tatgtccttt cgtgataaac ttgggtcttt g 331

<210> 7223  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7223

agctnttggtc actccacctt aatcttgtct ttatgttaac caaagctagc acagctgata 60  
 acatagtaaa gcttttgcac ccaacataca atggcgtatg cgcattctgtt tgaagagcat 120  
 cgtaaataatc tgcattgacat tcccgaaagc cctcttgccc aagatcacgt atcatgtctt 180  
 ccatgagatc tccgctttgt agatcaaccg gatgaggtgg acatggttgc gtatgaccaa 240  
 ccaactcacc atgccaatc cacttttgtt acgtcggggt aaagccatca catatcagat 300  
 gcgatctaata gtcattccaac gaatgacgcc tcccgttgac acatttaaca caagggcaga 360  
 aaaagttgcc atctgtgggt gctgaatgta tnttggcana tgacaaanac tcttcaactc 420  
 catgttgata agct 434

<210> 7224  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 7224

agcttatcaa catcaaactt ggagtatgag ttcttgggggt caagacatga gaagcaatca 60

agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120  
 gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180  
 cttgaacgac cccgaactgg tatttcgtca tocatatttg gtaccagaat acttttagca 240  
 acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300  
 aaccgagctt tgacaacatc aactaattcc atgacattca caatattaag atcttttctt 360  
 tgcaatatat ttgaaaagct cattgtttcc tatgacctgg atcacgcaca atctcattgg 420  
 ggttaaactc 430

<210> 7225  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7225

tcgagaagaa atcacatggt tgtcatcatc ataaagggtt tataatgtga atgtatgtat 60  
 acatgatgtt gatgatgtca aagaagaatc taacaaggct gtttcaaagc ataagcattt 120  
 gtttcaagaa taattcaaga ttgcttcaac aaacaaagcc ttgtttcaag attcactaaa 180  
 gaccaagcct tgccttaaaa cattgtgctt tcaagacatg caaggctctg gtaatcgatt 240  
 accaggaagt gtaatcgatt accagaagac aggggttgaga aatagctgtt gaaaaagggt 300  
 ttgaatttga attttcaaca tgtaatcgat taccatatgt ctgtaatcga ttaccagcaa 360  
 cgaaactntg gaaattcaaa ttcaaaagtc ataacccttc aaattataac tgtgtaatcg 420  
 attacacaaa cattgtaat 439

<210> 7226  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7226

ggcttctaca aagtgaaggg tgtattccct ttgaaaaact ctaatccatn gggactttat 60  
 ttatcatggt catcttcagc ccaatcatta tcaactgaac ctacaagctt atagttgtta 120  
 cttggtgaga accataacca aagatgattg ttcctttgat atagcaaaga gatcattatg 180

cagccttgtg gtgagtaatg gttggagtct acatgtatcg actaatgagt ccagcatcat 240  
 atatgatgtc tgggctcatg cacgtcaaact atcgcaaact acccaacaaa c 291

<210> 7227  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <400> 7227

tctggtggga catcttgact tgctttccaa tctgacattt tccacaaatt ctgccttctt 60  
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcatcttct ttggaggata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240  
 tgctgccctt cattagaact tcaactcttct catttgtcac caagcattct gactttgtga 300  
 agattacatt gaatccttct tcacacagct gactgatgct gatcaagt 348

<210> 7228  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7228

agctttctaact cgattacaca catactgtaa tctattacca gaggagtttt tcagaaaaca 60  
 ttctcaacag tcacattttt ttatctgttt cttaaagggt catcaaaggc ttatatatat 120  
 gtgacttgag acacgaattt aacaagagtt ttcaagagca aaaagggtctt atcctcttaa 180  
 aaagcaaaat agttttatcc tcttacaaat tccttggcca atacacttgt gattcaataa 240  
 ggaattattt gagtgcacaa attgttcaat ctatctcttt caagagagat ttcttcctct 300  
 cttgaaaagg gattaagaga ccgaggggtct cttgttgtga aagaattcta aacacaaagg 360  
 aaggattgtc cttgtgtgtt tagaacttgt aaaaggaatn taanagatag tggaactctc 420  
 aagc 424

<210> 7229  
 <211> 342  
 <212> DNA

<213> Glycine max

<400> 7229

gcctcacctc ccaatgagct agtgaaaaaa aatggggcat ttacctgggg tgaaaaacaa 60  
gaacaagcct ttggtttgct caaagaaaag cttactaagg caccctgtct agctcttcct 120  
gacttttcta aaacttttga gctagaatgt gatgcctctg gagtgggaag tggagctggt 180  
ttgttgcaag gtgggcaccc tattgcttat tttagggaaa aacttcatgg tgccaccctt 240  
aactacccca cctatgataa agagctttat gccttaataa gagcactccg aacttgggaa 300  
caatacctgg gttccaagga attttcattc atagtgatca tc 342

<210> 7230

<211> 427

<212> DNA

<213> Glycine max

<400> 7230

tcccctactc ccaaaacata gaaaaacaac cgaagaatct gtctgctcat ccagccattt 60  
taatatccta tcatgttggg cttgatccaa attttggtta ggttgaccct tcagattaat 120  
caatggacca acagcataga taggggggtgt ttgaatttga ccatcacata atgcatcaat 180  
agcatactgc tccaactctg aaaaagagtt aacaatgatc cctttggagt ccttgaacct 240  
ctgagcaagt ttataataag tggcatatcc acctgtttg ttaaaaaaag catcatgcaa 300  
aacactagaa ggaactggat cagggagacc cggttccaac cactgaggat cagaatcatt 360  
gaatgcatca ccaactttac gtttctgaat ggaaaacatg atattcacia acccatcatt 420  
tgaaggc 427

<210> 7231

<211> 519

<212> DNA

<213> Glycine max

<400> 7231

ttaagaatta tgggctcatc aaactacttg tttcccgagg gaaattctat aaatagacct 60  
cccatcttta atggagtggg ttaccactac tggaacacct gcatgcaaat ctttatagag 120  
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctatagtg 180

gccggaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
 gtacaatata atttaaaggc caaaaatatt atttacatct gctctaggaa tagatgaata 300  
 ctttatgggtt tcaaattgta aaagtgctaa agatatgtgg gatacactac aagtaataca 360  
 tgaaggcaca acagatgtta aaagatctat gataaataca tttacccatg aatattaact 420  
 gttaggatg aatgtaaag aaagttttca agacatgcaa aaaaggttca cacacatagt 480  
 taatcatctt gcacatctag gaaaaacttt ttcaaata 519

<210> 7232  
 <211> 587  
 <212> DNA  
 <213> Glycine max

<400> 7232

ttagctttgt ccccaaggct tcatgtagac ttgtccatta tctctaagtg aacctcggat 60  
 ccctgtcggg tacaatactg gaaggaattc catgcaacct taccacttcc ttgatgtaca 120  
 actctactag cttctccatt ctatacttca tattcactgg gataaaatga gcagatttgg 180  
 tgagtcgatc tactatgacc cacacagcat catgtccacg actagtcttg ggtaaactag 240  
 atacaaaatc catagatatg ctctcccatt tccattccgg aatttccaat ggcttcaatt 300  
 ctctgatgg tcaactggtgc tcagccttag ctttttggca tgtcaaacac cttgctacat 360  
 attcagctac atctttcttc atgccctgcc accaaaaact tatcttcaaa tcttgggtaca 420  
 tcttagtcat tcttggatgg aaactaacac gacttttatg cgcttcttcc aagatcttaa 480  
 ctttcaaatc atctcaagat ggcacacata ttctcccttg tgaactaat taaccgggtt 540  
 gtgtcctttt caaacctac atccttaatc cccatttaca tccatta 587

<210> 7233  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 7233

ttgaaactaa gcttgcagac tagtgctacc aacctagata gaatccctct gttgtttcat 60  
 gtaaacctct tcttttagat caccattcat gaacgccatt ttcatatcca tttgatgcaa 120  
 ctcaagatca aaatgagcta ctaatgccaa aattactcga agagagtctt tcttagatac 180

aggggaaaag gtctctctgt aatcgattcc ttctctttga gtgaatcctt tagcaacaag 240  
tcttgcccta tgtctctcaa tgttgccttc taagtctttc tttgtttcga agacccatct 300  
gcatccgatg gctttttacac caacagacaa ctcaacgaga tcccaaactt ggtagatgc 360  
catagaatcc atctcatccc tcatagcatt gtaccacaaa tttgattgct tagaactcat 420  
ggcttgtgaa aacgtgtcaa gatcatt 447

<210> 7234  
<211> 219  
<212> DNA  
<213> Glycine max

<400> 7234

gctttaactt tgtttaagaa aaagattgta ttttttgtat aaaacctacg gaaggttctc 60  
ttttgaccac ttttccagct attggcaata tcgggtgcat taaaaaattc ccatcagttc 120  
atgggtatgt agagaaaaga ggcttcaatg cctttgatgt acgcattaca aatgcattac 180  
ttgatttggga tgcccagtgt ggatgcatag ctagtgtga 219

<210> 7235  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7235

ggagaaagag acaccttttg gttgcaaaca atgtattttt ttaagtgtga cacctaaatt 60  
ccaagcatgc aaaggttcaa catagaaata acaaaactaa gataaataaa taaagggggg 120  
gaagagttga atttaatgaa tggattacaa ttaccaatgg tgggggaaag atcttcaaca 180  
gaacttga aaagctgac aagtaggcta ctttttccca ccccgggaatc tccaatcaac 240  
aagatcttga aagagagatc atagccactg ctctgacctg aggatgaact cattctctct 300  
tcctctgatg aatgtcttan gtgtgtgtgt caaaaagtac agtgaaagaa acgtatgcaa 360  
gggtgagaga gagaaagaag cttatggtgt tgggctaggg aaggctaaac tgtaaagaag 420  
tgcaatgggtg caagcccttt cttttatttg gg 452

<210> 7236  
<211> 455



<212> DNA  
<213> Glycine max

<400> 7236

ttaatgtaaa ccttactctc agattcaatg cactttatct tctaacaacg cttcaatctc 60  
ctcttacctt ttgcctttgg tgtctgataa aaataaattt tagaaaagtg tggcacacac 120  
catcacccca ccaagcacia acaacatgcc tccaaatggt attgcctcta aaacactaag 180  
gaatgtcatg gacacaatcc cacttatcaa acgggtcaca aaaatggcca agttggaacc 240  
ttgggccatt agccttagag ggaaaatctt agaagagtag acccaagttg tcagcccacg 300  
cccaatacaa aagcatgata ctgcaacata gacagcaacc acccaciaag caatgaccca 360  
ttgatccttg ttatcaccac ataacttaag caaggtagat tccaagccca tcacaaacaa 420  
tgagattgcc atgctacatg agcctaacia caaca 455

<210> 7237  
<211> 454  
<212> DNA  
<213> Glycine max

<400> 7237

tagctgtagc ctccagttgc atgacttggt aagcatcttg aatgatcccc acttcctaata 60  
gtttttgtttt tttctctctc atattcttat catatgtggt agatttcata ttaaaaccaa 120  
ttaacattaa gtgaagttgt ccaacagatc tataagttgc actctaagac agccgatgtc 180  
ggacttcaa tgcacccctc tcacgcccac cacttattaa gcttgggtgcg tgaacaacaa 240  
atggtgggtg ctcatcggag gcgagagcga tgtcgcaggt caaagcatgc tttgatata 300  
tgtagattt catcttaaaa tcaattgaca ttaagtgaag ttgtcaaata tatgtatata 360  
agcggtagctc caaaacaaat aatatgagac ttggatattt ttcaataata tggaaacaat 420  
ttgtgatacc cgggcatcat aaattgatgg tttt 454

<210> 7238  
<211> 535  
<212> DNA  
<213> Glycine max

<400> 7238

cttcttggct gttgccttga aggacaagaa gaattacttt tttttttata cgtgggctaata 60

ggcagcctta actccttcat atttggatg caataaatga agaatgctta aattagggttc 120  
 acttgtgttc tttcttttct ttgagttata cttagcagct tattaatctt gaatatctaa 180  
 tattgaacaa tacttttttaa ctccttcaga tcaaataaaa agtaaattat tggattggcc 240  
 acgacgcttc aacataatac ttggaattgc aaggggacta ttgtatcttc atcaagattc 300  
 tcgattaagg attattcata gagatctcaa agcaagtaat gttctactag atgaaaagtt 360  
 aaatccaaaa atatcagatt ttggaatggc aagagctttt ggaggagacc aaaccgaggg 420  
 aaacacaaat agagtatttg ggacttactg agtgtctgtc taattataat atacaccaca 480  
 tttactatth atctattcat ttatatthgg gttaatgtga attgattgct ctaat 535

<210> 7239  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 7239

aacaagacaa caaaggaaga aagaagggtt tcttctaacc cggagattgg gtttgggtgc 60  
 acatgagaaa agaaagggtt ccggaacaaa ggaaatcaaa gcttcaacaa aggggagatg 120  
 gaccatttca agtggttgaa agaatcaatg acaatgctta caaagttgag cttcccggtg 180  
 agtataatgt tagttccacc ttcaatgtct ctgatttata tctttttgat gcagatggag 240  
 aattcgattt gaggacaaat ccttctcaag agggagagaa tgatgaggac atgaccaaga 300  
 gcaagggcaa ggatccactt gaaggacttg gagggcctaa gacaagggct tgagcaagga 360  
 aagccaatga agc 373

<210> 7240  
 <211> 541  
 <212> DNA  
 <213> Glycine max

<400> 7240

gggaattttt ttatatggta tctttataat ttctctatt catgaaacat tgtcatgtgt 60  
 gtgtagggca catactgaat ccagcaagac atttgaggtc ttgaaatctc ggtatatcac 120  
 ttttgtttca gcactgtgaa gaaatgcaag ccctttggca ggccttagag caactttcaa 180  
 acgtagaccc caagaaagag gttgaaagta tgaccctcct gttacagcaa ttaatcatgt 240

aaatgttatg cacacacttc tcaagttcaa caatgtgaaa agatgggaga tgaaaaactc 300  
 actcatgaac aagtgattct ccaagctacc acgaggcata aattcataga ccagaagtcg 360  
 gtcttttatct tcaaagcaat acccaattaa ttctactaga tgaggatgag aaagctggcc 420  
 taaatagttc acttcagcct aaaatagaaa agaaattaaa acaatgtaag gcaaaccat 480  
 ataatggtag cacttaaact cttctctgtt tccaaatatt cataacatta ttaattatga 540  
 a 541

<210> 7241  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 7241

ttttttactc tctcgagctc taactctgag tggaacgcgc actgtggagg ttccctatcc 60  
 ctcgaacctc ggttcaccat cactgagttt cccttttcag cttgtctacg atcccactct 120  
 aatgcagcct tctgcttgga cctaagcaaa cagaaatttt gcaacttttc tggcattgat 180  
 catgcacctt ccaccatctt gcgtgagcca cattacttgc aaactcctgc agatgtcacg 240  
 ttccagttgc agtcgtagtc tcggagcaaa gccatggctt attaccagat aatggatgac 300  
 ataaggattg gggatcactc aaagaacgag ttttattgct ttctctcttc tcatcacttc 360  
 ccaaaggctt aagaaaacat gtgtt 385

<210> 7242  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<400> 7242

agcttgccct gccctttgat aatatttgat gtgattcatg gccactatga atgacaaatt 60  
 ccttgggata aaggtagtgc tgccatgttt tcaaagcccg tactgagaca tacaactcct 120  
 tatcataagt tgaatagtta agggtaggac cacttaaatt ttcactaaaa taagcaattg 180  
 gatgaccttc ttgcaacaac acagcccca tcccaacatt tgaagcatca cactcaattt 240  
 caaaagattt ttgaaagttt ggcaatgcaa gtatgggggc attagttagc ttttgcttaa 300  
 gaacattgaa atcttcttct tgtttctctc ccatttgaa accaacattt ttcttgagca 360

cttcattgag aggtgctgcc aatgtgctaa aatccttcac aaatcgtcta taaaaacttg 420  
 taagccatga aaactcctca ccttagtcat agacttaggt gtaggccatt cttgaatagc 480  
 cctaacccttt tcctcat 497

<210> 7243  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<400> 7243

tacggacctt aatctaactg tgaacaaagc cgcttggttt taaggtggat tttgaaaagg 60  
 cctatgactc aatcttatgg gcatttttgg attatatgct gcaaagaatg ggtttttgtc 120  
 ccaaatggag aactggatt tctgcctgtc ttaattcagc aagcatttca attcctgtga 180  
 atggcagtc tacaaggaa tttactccta ctagaggctt gaggcaaggg gaccctttag 240  
 ctcccttact ctttaatat gttggagaag gcatcacagg attgatgagg gaagcagttc 300  
 ataagaactt atatagaagc tatatggctg gaaagaaaaa ggaaccatt aatattttgc 360  
 agtatgcaga tgacacagta tttgtgggag aggctgcttg ggagaatgtt gttgttttga 420  
 atgctatgct cacgggatct gaattggcct caggcttgaa gattaattat gcaaaaatcc 480  
 aatttgga 489

<210> 7244  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 7244

cattaaataa cttggtatta tatttatgaa tatgtatggc aaaattcaca taaataagat 60  
 attcgctgat ggattattta ctaatagaca ttaacctata ttttattata gatataact 120  
 aagatttaat cattttatatt attagtacaa tgcggcaact aattactaaa atgtttgtgt 180  
 aaaaatatta tatattaaca catgaattta aattaaataa attttattat gtcgtttttt 240  
 ttaaagatcg gcggtatta ttattgttat taaaaaatat tgggcaacaa caatacat 300  
 aattgttaaa gtgaagagac gacctgatta ggaactcctc aatccacact ctcatgga 358

<210> 7245  
 <211> 599  
 <212> DNA  
 <213> Glycine max

<400> 7245

cgaaggcgaa ctggatgcat tggtaaactt ggtaacccat tatgctttta atcaaaaatc 60  
 tgtacctgtc gcaaggggtt gtggtttgtg ctctctgtct gaccaccata cagacctttg 120  
 ccctttcatg cagccacctg gagcaattga gcagcttgaa gcttatgtctg caaatattta 180  
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240  
 caacaacaga tacaaccctg gatggaggaa tcaccctaac ctcatatggt gcagccctca 300  
 gcaacaacaa cagcagcctg gtcctttctt ccaaaatgct gctggcccaa gcagaccata 360  
 cattttctca ccaatccaac aacagcaaca accccagaaa caaccaacag tttaggcccc 420  
 ttcacaacct ttctctgtag aacttgtgag gcaaatgact attcagaaca tgcacgttta 480  
 gcaagagacc agagccttca ttcagagctt aaccaaatta atgggacaat aggctacca 540  
 attgtatcaa caacagtccc agaattctga caagctgcct tcttaagcta ttccaaaat 599

<210> 7246  
 <211> 543  
 <212> DNA  
 <213> Glycine max

<400> 7246

agcttggtaa atttcgggtt accaattatt ctttatgaaa actcatttat tgaccattat 60  
 aaatatagta caaggttata tagcaataac ttcaaaagct ccattttaaac aattatatgg 120  
 acaacaaaac acaaaaacgaa caagctgtaa cacaatcata attgctatctt gttaatcaca 180  
 cttaaacaaa agaataagcta ggcaaaactaa aatcaccaac aatcacggac aactaacacc 240  
 taccatttgg taaacaataa ataattctgc atttttatctc aataaataaa cacttaaaat 300  
 tttttcctga atttgaataa ataaattcac taaggtaatg ttgtcatatt tatatcgggc 360  
 atcgactcga ttaagatact aagttactaa atcatgcac aaccaatga atcactaatt 420  
 gactcccatg attcaacctt tattaataaa ttctaaataa tttcataacc tgcaaactg 480  
 tatacttaaa gtttatcaaa attcatgaca agttttgaat tgtttaaaat tttgacaaca 540  
 tat 543

<210> 7247  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 7247

tgcatgtag ctctttttta tttatttgca tgtagctttt cttatcctcc ctccgatatt 60  
 atttagaaga cccaaatttg aaatgatatt ttttttttta taagaatcaa tttataatat 120  
 ttcttatatt aattattttt agactagaaa tgtctctaata taaaattgaa agaattgatt 180  
 gacaaacaat taaaagttaa aagagtatta atgacaagaa tagttttgga aaaattataa 240  
 atttaagata aatttattgt tatgaactaa aataatcatt tttcttaatt gtgataaatt 300  
 aggtacttgg gtcttatata taagatcaga tggattattt gaaaaatatt gttgattctc 360  
 tcatgatatc aaaggtaagg tgggattttt atcattttgt taccatctc ttctgaataa 420  
 ctagcataat gg 432

<210> 7248  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7248

tgctacgacc cttaaagggc cttcctagtt gggccaagc tttcccttag ggatcttttc 60  
 tggcttcacc tcagactcgc gacactaggt tgccagattg aaaggctcca agttgaacct 120  
 ttgtattgta tctccttgat gctcggagct tggtttcctc ttctttgatt ttggaaatct 180  
 cttggacgtc atccttggtc tctagttcca cctcatggt ctctttgttg tgttgttctt 240  
 ggaacaacaa cctccttgtc gacagttccc caactttgat ggggattatg gcatctctgt 300  
 tgtatgtgag tcaaaaagta gtttcgttgg ttgttgtctg ggggtgaacag tgataggcca 360  
 agagtatact atggagtccc tccttccata gacccttga ctttgtgagt cttntgcgca 420  
 cggcggttaat gataacccta ttatctgcct tcgcctgacc aataattttg gggg 474

<210> 7249  
 <211> 521  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7249

aagataatcc tcaggcttgg ccaatgcaga ctgtttattg gaaacggatt ggactctatc 60  
at ttattatc agagcctgtg acatggataa caaaggagag aaatttttca caatctatag 120  
attcctcaga ccaaaataaa aaatacaatt atgacgttga gtactcagtt taagaggata 180  
tatctttcag agaggaaggg agggaaagag aaatacaggg ccaagtttca tttttgaaac 240  
aatagttggt gtcattgtaat ataactactt tattagaagt gcataacaca gcatactcac 300  
atggcccttg tattttgtgag ctggaggaa atcaagcaag ggctgcaagg aatctttggt 360  
gcgaaacatt attgatgaaa ggtggcgatt aagaaattgg acaccattgc caatggatgc 420  
tgagcgggtt gggcgaggaa acgtggcatt aaatggctca aaatcaagct ccaatacaaa 480  
attctcatta attcttaagc acaatacana acagaaacag a 521

<210> 7250

<211> 525

<212> DNA

<213> Glycine max

<400> 7250

gctttgagaa aacttccttg agaagctaga gcttatcttc tctcaccctt ctcataacta 60  
ggctcacctc cttgagaagc ttccttagga agattcctaa agaagggttg gcttagctac 120  
agatacatct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180  
cacccttat aatagctaag ctcaccccca tgacaaaaaa catgaaaata caaaaaaat 240  
tccttactac aaagactact caaaataccc cgaaatacaa ggctaaaacc ctatactact 300  
agaatggcca aaatacaagg ccagacgaa ggaaatacct attataatat ttacaaagat 360  
aagcgggctc atacttagcc catgggctcg aaatctaccc taaggctcat gagaacccta 420  
gggccttccc ttgatctct agcccaatct acttgagtc ttctacccaa tgcccttgcg 480  
gggtaggatt gcatcaagtg ccttcttgga tttcaagatt tgaat 525

<210> 7251

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 7251

agcttgtggt gcaaaagatt acatctattc ttaagaattt ttgatggggc agcctccaag 60  
actccattaa gattccttgg gtgagggtgg acatagtctg cctacctaaa agtaaagggtg 120  
ggttatggat caaagatttg attaaattca acgaggcttt gcttgctaaa tgggggtggg 180  
agttggcaaa taatcagaat cagttgtggg ccacaattct attgtgtaga tatgggtggtt 240  
ggagggattt gatttctcat aggaactgca gtttagactc tccttgggtg aaagacctca 300  
agggtatctt caagcagcag caaaagcaac acaatttgta aaaatagctt tatttatgcc 360  
ataggtaagg acggtccatg gaatacanac caagtactta ttggttgacc acaacaaaa 420  
cactcattgg aatatatatg tttacaatt aacataaact cgctgacagg aatggagaaa 480  
tatacatatt aaatttttc 499

<210> 7252  
<211> 400  
<212> DNA  
<213> Glycine max  
<400> 7252

agcttataat attgcagcaa tatttatattc catcagcccg agaactatca cgcttagttg 60  
gagtctgcaa agccccaatc attcaacact ttgctgaaac aatttctggt acttcaacta 120  
ttagaagctt tgatcagcag tcaagatttc aggaaacaaa tatgaaactg actgatggat 180  
attctcggcc aaagatcaat attgctgggt ccatggaatg gttgtgtttc cgcttggata 240  
tgttgtcttc tatcacattt gccttttctt taatattctt aatatctatt ccacagggat 300  
tcatagatcc acgtgagtta ttcctatctg ttacaaatca aaatttaatc tgctattcta 360  
atatggaatt gaacataatt gtttctcttt tataactttt 400

<210> 7253  
<211> 595  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7253

ntaatgtgtt ctcccttata gaactactaa ctgtagtaac atttgcagcc cagctatccg 60



gtagtgatga caatagaatc aatgccttca cctcatcctc aaattttaatc tgcactgact 120  
 ccaattgggc aagaatagta ttaaattcat taatatgatt agttacagag ataccttctc 180  
 ccatcttgag gttgaacaat cgacacatca agtataccat gttggctgca gacgacttct 240  
 cgtacatagc tgataatgcc ttcattaagt ctgcagtagt cttctcattt accgtattga 300  
 atgtgatatt cttggctaata gtcaatctga tcacgccaaag agcctgtcaa tctagcaagt 360  
 tccattttta ttgccttatg ttgtctggct tatccctga cgagagagaa taatgagaag 420  
 agaaaaggaat aatgagaaga gagagaagac acaaagtttt tacatgggtc aacacacaat 480  
 gtatgaccta cgtccatggc taccttagaa aaatttcttg ttgttgcaaca ttttaaagct 540  
 tacaagtgtt ctattattat acactaatga gacacaagtt tacaaccaa gcgat 595

<210> 7254  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 7254

ttagataccc tgagactagg ctcaggccct ttgatttact ctatattaca ggtgagcgag 60  
 cctattagca gtgacccctt tgttctaata attattattt gtgttggtgc tcatgaagca 120  
 ctatctagta tgaattttta ttgggtgcaa taggatttca atgtaaagggt gaattttttg 180  
 gagaataatt ttcccttgat cttacttcgt ctgctgaatt cctaaggata attgttggtc 240  
 tgggtttcta tataagccta aggaatcaat cctgggaaac cctatgatcc ggattcccat 300  
 cggatctagg gtgaaccaat ttggcggttc tgctttgcac atgataaaga atgttggtc 360  
 gatagttacg ttcattgggtg agataatgga tcacaacaca aattgcattt ctcatagaat 420  
 acatgcatac agtttttggtt acatgttcaa atattatttg 460

<210> 7255  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 7255

tggaactaag cttattttct ctaccacttg tcattctttt actgatgggc aaacaaagggt 60  
 agtgaatagg tctttatcta cgtttttaag ggctcttctg aagggcagcc ataagtcttg 120

ggatgagtat cttcctcatg tagaattagc ctacaacagg ggggttcata gaaccgccaa 180  
gcaatcccct tctgaagttg tctatgggtt caatccccta acacccttag acctcattcc 240  
cctcccactt gacacttctt ttatacataa agaaggggaa tataggtcag agtttgtaaa 300  
gaagttgttt gagaggggtt agcgctaata agagaaccaa acaaagggtg attaaactaa 360  
acgcaattaa ggaagaaatg agctatttct taatgaacgg gactgggttt ggctcatctt 420  
acagaggata gattccatac taaaaggaaa tccaagctaa ccc 463

<210> 7256  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 7256

cagctttgga gtttccaagt gccattctt tttcttcttt agaccaatct tcttctggct 60  
tcaattcatc agagggcttt ccttctgtgt ccagcatctt gggatgttcc caacctttga 120  
agacagcttt ccaggttctg ctatccagtg atttgaggaa agccaccatc cttgctttcc 180  
agtattcata gttgggtcca tctaagattg ggggtctggt cactggctct cttctttctt 240  
ccatgttcat aagaatttat ctccctagat ctactcagt gatttcgagt gcccgctctg 300  
ataccaattg aaattctgat actggggaca gatgtcgac aagattgtac gacatcacgc 360  
tgcagattgt gtttgactgt gtgaacacat taaaccagct c 401

<210> 7257  
<211> 508  
<212> DNA  
<213> Glycine max

<400> 7257

agcttctcta gaagcacttt tacgaaatgt atttgtgaag aaaaaataaa ataaattttt 60  
ttataagttg aaattaattc tccattaatt aatttgtaga aattttcaca taatttcttt 120  
gaaagatgaa aggatatattg taaattagtt aatggtgagc taattttatc ttatgaagaa 180  
atacatttca tttttattta tttatttctc tcctaaaaat actttcttaa gaaatttatc 240  
caaacaggta tttatcagat taaattttga aagccctaaa cttttttggt cttgaactca 300  
ttattctagt tcaaaggagg tcctttaaaa tttccttaaa tgtaatgagt cctatacaac 360

tatgacatgg ggccataaag tatctcccca aaatcttagt tattaataga ttcaagatca 420  
 attatgctgt tacgggttttt gccaccaat ttgatgtagt ctatcacttg gcaccgatgt 480  
 tttattttttt aattttgttt tcagtggc 508

<210> 7258  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 7258

gcctttactc tgatttgctc tgacaggatt tttcttctta aaaaaaagg gaagagatta 60  
 aagctgcat tttatattgt ctcgatcga ttcccttttc tcttttgatg aatattatTT 120  
 ctcaaTccc aatggTgaag tagTgtgaaa ttaaatttct aaccaagggg ctaaatttca 180  
 tgatgatcca acggttatta agtccgagat catagcttta taggacaggT tttgaatctc 240  
 tatgggaaaa gaaaaagtta caatgcgaaa gttttttatc tctaacattg tttcacaatt 300  
 tacaacagcg agaatgctaa aaatgcgtct caaacctagt gttaaaatat cacgatgatc 360  
 aaaccgttaa caagtctgag attggTcgTt tac 393

<210> 7259  
 <211> 538  
 <212> DNA  
 <213> Glycine max

<400> 7259

ttagtttcaa cacaagcagg ttgcccaagt atacaaattt ttatgtatgg ctctctttat 60  
 ttttaataaaa tctttgtagt tttcttaatt ttaataacaa atttttcaaa agctcccatc 120  
 aggaactgtc cctccaagaa gttgacgcac tattgatgat gaatgtttac tataggcaga 180  
 ttagaaattc aaatattcaa attcaacttt taaacaatgt gtatgaacac caaaagcagt 240  
 aaaagggTta aacacataca gaattttttt gctgtgcacc agacccaaag cttaaattctc 300  
 ctgctggaat tggcaaaaacc ttcgaattca caatagggtc tgatatatga tcagtccgga 360  
 tctcaagggc cgactcccgga agaagagcat tgaacatggc aacatctagt ctagctatgc 420  
 attgttccat gacctggtaa aggaatttaa tctactttaa tctgaccaa agaaagggaa 480  
 gttatttaca cttgcagaat ggaacgatat cattaataat aaaaaaggcc cccatttt 538

<210> 7260  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 7260

tctggttagga catcttgact tgctttccaa tctgacattt accacagatt ctgccttctt 60  
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggaggata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
 tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300  
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360  
 cctttcccag cagtactttg ttcagactat gaagtccatc atggactagc ttttccattc 420  
 cagtgatcat ttcttttagag ccatctccaa atgtcacata cctagtgg 468

<210> 7261  
 <211> 575  
 <212> DNA  
 <213> Glycine max

<400> 7261

tcaagctgct caattgctcc aggttgctgc atggaagggc atatgtctgt atgggtggtca 60  
 gcagaggagc acaaaccaca aacccttgcg acaggtaaca atttctgatt caaggctaac 120  
 tggggttacca agttgaccaa cgcattccagt ttgccttcaa gcttcttagt ttcagatgat 180  
 gcagatgggt ttgtagctac ctcatgcact cctctaata gaatggcatc atttcaggcg 240  
 ctaaactgct gggagttgga ggccatcttc tcaattaaat ttctggcttc agcaggagtc 300  
 atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagaagctgt tctgaaatct gatgggtgggg gcaactggca 420  
 catagtttct taaatctctc ctagtactca tacaggctct ctccactgag ttgtctaata 480  
 cctgagatat ccttctgat ggctgtggtc cttgaaagcc aggaaatctt tttctaagaa 540  
 tactctctta aagtcattccc acctcgtgat ggacc 575

<210> 7262  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 7262

ttgcttctca agactcttgc acaggagtag atttctatat tatggcaagc tgagttacta 60  
 ggttgaccaa ggcacatcaagt tttccctcaa gcttttttatt ttcagcagat gaagatgaat 120  
 ccgtggccac ctcatggact cctctaagga ctgttgcac aagtggcctc agaataatta 180  
 agaagggggg gttgaattaa tcattcctaa acctttacta attaaaaaat tactcttcta 240  
 aggctttttac tatgtttgta agtaaataaa gagtagaaaa gaaacttaac caaaactaaa 300  
 agcaggaatt aaaatgcaca gcgaaaatta aaagtgtagg gaagaaggag acaaacacac 360  
 aagagttttt gtactggctc gacaacaacc catccctaca tccagtcctc aagcgaccta 420  
 tggctcctga gatttctttt ccaaccttgt aaaaatcctt ttacaaacaa aag 473

<210> 7263  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 7263

aaaataacgc gattccctt ttgtaaacac aaaaaggcca tagtctagaa ttaacaaaga 60  
 aacagaaaaa ttcacaaatg atattcaaaa tcaaaacatg cggtagctgt ttagcaatcc 120  
 aatgtggttag tgaagagaca gataaagcat aaaagaagta aatcgaacaa gacagtaa 180  
 accaccacag tgaagctgct ttgagttaat gaagtctagg cacttcgtaa tcttgctagt 240  
 ttcgaacttc acaaaatgaa gccttcacc aagaatagga tagcttctcc tgttaccatg 300  
 gggcggaat cccagtcgat tattcacatt tatcatcctt tta 343

<210> 7264  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 7264

agcttaacac attgtttgct tctgtctatt attgatggta gccctaggta cttgcgtctt 60  
 cccaattgat tagtgacccc caaagatgag atgttttgct tgagagcttg agaggtgttg 120

gtgctataga atatTTTTga tatacaaagg ttaatcgttt gccctaatgc tttctcataa 180  
 gtgttaaaaa tatctctcaa ataatcatca acaaataaaa ggtgtgagag gcttggaatc 240  
 cctctatata ccttgacacc atgaatctat ccttcacttt ttgctctcct taagcgtgtg 300  
 gaaagcctct ctttacaat aatgaacaaa tatagtata cttggtgacc ttatctaaga 360  
 cctctcccat gaaaaatatt tctcatagga ttcccattta ttatgataga atagtgaact 420

<210> 7265  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<400> 7265

tgccttgaat tatattaata gttgaattac ttagaaattt tctttgcttt attataattt 60  
 tagtattttt ttaatttatt ggtctaatag ttttaaagta attacttaga aattattatt 120  
 tattatttat catcttttca ttttcataaa atattgaaac tttttctata cctatgtaaa 180  
 tataatttaa ttatatattg atatctatat gtaaatttac cagtataaaa attatgtata 240  
 aataaaaactc aagagataaa catcttttta tgaaatcaaa tcagattttt tttatccgta 300  
 atcaaatagg aaaatttaac ttttaacttaa gagaatgaat attttctaca aaatttttat 360  
 atttaaactt atttgtcaat tatattaatg aaaataaatt cttatatata ataattaatt 420  
 atactacccg tgcattgaca atttgttgct catataattg aaagttattt gcatagaaaa 480  
 tgctaattct tatagttaat at 502

<210> 7266  
 <211> 594  
 <212> DNA  
 <213> Glycine max

<400> 7266

agcttctcat caagtaacat tcttgagatc ctctccccag gccttcttga cttcccttcc 60  
 cttgctctta gccctgtcac acaatttaat gatgacccat ttgacaagtc ctctccttca 120  
 ttggggaact catcagagga ggataaaccc atagctgaaa gggcttctac ttgcatccct 180  
 ctcccatctt taatccaaga gactcagaac catagctctt gcctcttttc ccagttactc 240  
 acctagagtc tcatoggaat caccttcttg aggacattgg agaatagatt gtgttcctga 300

gttatggatg atttaaatag agagagaatg gttgggtgggtt aattacatca tgggtatctt 360  
 tttttatttga atgggttcacg gtttcctcca tcaacaagaa ctattgtagt ggtactactg 420  
 gtggtgacag tggaacaaga agcagtagtg ggggaattaag gctttgtgaa agacaggtag 480  
 cctttcattt tctttattat ggatttttgt ttgggagagt aaagtgcata accttctttt 540  
 ggtacttgat ttgaagaata attgatactg tctaatacta aagaacacat tttc 594

<210> 7267  
 <211> 134  
 <212> DNA  
 <213> Glycine max

<400> 7267

ctgtgcagca actttttacga tggaccttct ctagctcagc agcagtatca cctcgggcta 60  
 aagattgtga cctcttcagc tacagatata accctggatg gaggaataac cctatcctta 120  
 tatggttcaa acct 134

<210> 7268  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 7268

tgccacttcg tcctcttttg tatatcacc cacttgaggg ttccattcat cactggactt 60  
 tccttgtgtg tccatcctct tgggatgttc ccaacctttg atgaacagga cctcagggtc 120  
 tgctatccag cgattcgacg aaggccacca ttcttgcttc tcagatttca tagccgcttc 180  
 catcaaaaag aggtggtctg ttcactggac cttcttcatt ctccatgctc atcacaattt 240  
 atctccccag atctcactct gcgatttcga gtgttggttc tgataccaat tgaaattctg 300  
 agtccgggga cagatgtctg acacgatgtc acgacatgac gcttcataac atgcacatag 360  
 tgtgtggccg tatgaacata ttaaa 385

<210> 7269  
 <211> 616  
 <212> DNA  
 <213> Glycine max

<400> 7269

tgtaactaga tgctattgtc ctacaacaga tgttgcgctc tagggcattg aaagccggac 60  
 tgcagcaatc ccaaataaag attttttggtc tacctgtccg accttccttt gttaagcctg 120  
 tccggccaaa ggtatgcaat attccttatag ccatgaatta ttcgcaaatt tatttacaat 180  
 tcttggaata caacatgctg tgctatatat attattccca aataaatgta agtggattgt 240  
 ttgaaatggt gtaataggat aataggaatg atccagcctc aattaggaga agtaatttat 300  
 ttacgctttc tcaagttatt tttagagaaa ttatagccac ttgcatgttc catgccaata 360  
 gtgctcactt gagctaatag taatgggtgc ctgtaaacaa ttatttcttc ccttgtcagc 420  
 atatgaataa gtgaatgatg gcgtttaagc cataatcaaa tacgaaatag caaataagtt 480  
 aatgctaaaa ttaatagctt tgggtgttgtt ccgtgttccg attctatgac tgcaagctgt 540  
 agtgcaggat tggaaccttt tggtcgcgta tgtcattaca gttcctcaaa gctttaaact 600  
 acctgatgca tattca 616

<210> 7270  
 <211> 613  
 <212> DNA  
 <213> Glycine max  
 <400> 7270

agcttaaaaca aacacgctaa gatctctttt aatattttat atatatatgt aactaaacaa 60  
 atgatcaatc ttaatcaaca catttttttt ggaaactctt actcaacata tttaaagaat 120  
 ttaacttcaa atttatcatt taaggatgta tacttaatta gcacgttcaa gagttgaaga 180  
 tttagataaaa tttgctcaa atattaattt aacttaaaaa tgacaaaagg aaggtcaaatt 240  
 gtcttgctta ggttaagttt ctttgaaaag ttctaccatt agagaaaata gtattttcta 300  
 gtgtagtgtc tctctagtgt agtggttttac tttctactat ttaatgttat aatttattat 360  
 attatcaagt atgtgaatta attgggtgtga aattatttta atttaattag aagtctcaga 420  
 tttgagtgat tgcttttggt ggagaatatc tatgggtttaa gccaaaaaaa taatattata 480  
 ttttattata ctaaatacta ctaataagaa tgatgtagtg gcataggaaa aaaagaatga 540  
 gagagaatgt ggggttcaaaa ttctccacta acaaaaatta ataatactaa ttattaatat 600  
 ttatcgataa aaa 613



<210> 7271  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7271

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 tgcctgcctct tacgcatggg cgattgtctg ccaactgcac tccatagtgg ataattgacga 120  
 ttactggacc gcattgactc tcacctatac ggcccttcata cactctccac tgacaatcat 180  
 acatcaggcg atgcgtcgga tctctggccc aatgtactta ggagtctaaa agcaaactgc 240  
 tagattggcc taagcgtttc aacattatct gcggaattgc tcgaggtctt ctttatcttc 300  
 atcaagattc tagattgagg ataattcata gagacctcaa agcaagtaat gttttgctcg 360  
 atgaccagat gatccctaaa atatcaaagt tttgcattgc tagattattt ggaggagagc 420  
 cgacagaagg aaatacaaat cgagttgttg gaacttanta agtattatct taatatcaat 480  
 ct 482

<210> 7272  
 <211> 593  
 <212> DNA  
 <213> Glycine max

<400> 7272

agcttaaaca aacacgctga gaacgctttt ttatatttat atataaaggc aactaaacaa 60  
 atgatcaatc ttaatcaaca catttttttt ggaaactctt actcaacata tttaaagaat 120  
 ttaacttcca atttatcatt taaggatgta tacttaatta gcacgttcaa gagttgaaaa 180  
 tttagataaaa tctgcctcaa atattaattt aacttaaaaa tgacaaaagg aaggtcaaat 240  
 gtcttgctta agctaagttt ctttgacaac ttctaccctt aaagaagata ataatttcta 300  
 ttgtaatgtc tatccattgg acagcttact ttctactcat taatgctata attaattata 360  
 ttatcaagaa tgtgaattta ttgggtgtgaa attattttta ttttaattac aagtctcata 420  
 cttgagtgat tgctttttgt ggagaatatt tatggttcaa gccaaaaaat taaatttata 480  
 attcattatc ctacatacta ctaatacaat tgatgcattg ctctatgaaa aataaaatga 540  
 taaaaatgtg gggtttcaatt cttcccctaa caaaaataat cataactaac tat 593

<210> 7273  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 7273

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ttatgaacat atcagcagga ttgtgtagag tgctaatttt atgaactttg attcttcttt 60
ctaaccgaat gaagtgatat ctaacatcta tatgcttggt tctatcatga tgaacttgat 120
ccttggccaa gcatatagca ctaaagctgt cacagtagat gttagcatat tcttgattaa 180
ttccgagatc atttatcaga cctctaagcc aaattccttc ctttgcagct ttagtaagag 240
ccatatattt agcctcagta gttgagagag caaccgaagg ttgaagtgtt accttacaac 300
tcaccaagcc gccaccaaag gtgtaagcat accctgttat gaccttctct tgaccagatc 360
agcagcgaaa tctgcatcag aatagccagt gaggcagcaa tctgggtg 408
  
```

<210> 7274  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 7274

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cagaacttgc ttaggaactt agcatcttta tctagaccac tggtcctaag caaaccatgg 60
agtcacacag cttccctcca ataaagattt gagatatggg aaacgtcctc caccttgtgg 120
catggcctaa agtgtgccat cttgctaaac ctatccacca ctacaaagat agagactaca 180
cctctatggg ttctagggag cccaatgaca aagtcatac tgatgtctac ccaaagtga 240
aatggaatgg gtcaagagtg tgatagccca tgaggcatca ccctaaactc aggctgttaa 300
ctagccacac acctactgcc atgcttatag acatttttct tcatatgggg gc 352
  
```

<210> 7275  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 7275

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agctctgatc gagtgctata aagcaaaatt tgtgaaccat tgggtgcttca tcccaaataa 60
ttagacttgg ctgatttaac aattctgcta atagactccc ttgatgtatg ttgcatgttg 120
  
```

agttttcaaaa acttggtaca ggaatcttaa atttggaatg tgcagtccta cctcttggca 180  
acaatagaga agctatgccg ctagaagcaa ccacagtaac aatttgattc tttgctctca 240  
atgaactcgt caatgttctc catatgaatg tttttcctgt tccttcaaat ccatatagga 300  
aaaacatgcc gccctcgatg ttgttgacag cttgcataat tcgggtgtga attgatcttt 360  
gtccatctac aattatggat cagttaacgt tatatacaaa tgaacaataa ttaatttt 418

<210> 7276  
<211> 538  
<212> DNA  
<213> Glycine max  
<400> 7276

atgagtggag ggaaaaaatg actggaggga gaaggagccc aaaagaggtc tgaactttga 60  
agtgtaattc tcaaatgatc aaagttagaa aaatgccac acatggtctc tatattatagc 120  
ctaagtgcc caaaaaatt ggaggaaaat ttgaatttct attcaaattt cacttgaatt 180  
tgaaattgaa tttgtggagc caaatttttg aaccaaattt tcactaatta tgattagtga 240  
attttagcta tggttcaacc ccctaatacca agatcaaacc ccaaattctc cactaagtgt 300  
gcttacgtgt catgagacat tgtaagcatg aaagacattc ccaaagtgtt actatatgat 360  
gtgaccattg ggggtgtagc tgcaaatgct cacctcccc tctataattc aattggattg 420  
gacttctccc aattcaattt aattttattc ccaccacca cattcaatat tcacttaacg 480  
cctaataaaa ttttaagccta ccataatac aaaaactagt cttagggcc taaaatac 538

<210> 7277  
<211> 629  
<212> DNA  
<213> Glycine max  
<400> 7277

agcttgtaat tgattaaacc gatacgagac acttttttgc aagattaaac caacttgtgt 60  
aatcaattaa tgtaagggtg tgatcgatta aaatagaaag ttttaccttc taaagaaaat 120  
tttgtaactt tagaaatttt ctacttactc ctacatgatg atgcatgatg catatatgaa 180  
atgatagaga ctaagatgca acacacaata caacaatcaa taaaaatgcc actaaagagt 240  
gttgggatgt gaaagaaaaa acttcttcaa gctcttcttt aagcttcaag gttaagtctt 300

catgttgctc ccctatctct aacacaaata acaaccatca tattaagatt aaaaataata 360  
gatgattgag attcacatat ttaaatttca aattaaaatt gaatatatca tcaaattcttt 420  
gaaagattaa ccagaaaaca aaccaatcta ttaagatctt agttatcaca ttctaagata 480  
tctgaattaa ccatcaccct gattataaca ccttgagata ttataagtta taaatcgaca 540  
tttaatttta tttattgtgt ggttgactat atgatagact tgaatgagtc gaattatgtg 600  
gagtcttttt tagctaagtt gaaattatg 629

<210> 7278  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 7278

ttggcittgca agctgggttg tttggatgca aatcctatgc aaacacaccc taaattgagt 60  
aagtgcttta attagcattg agtctctggt aaggggtcaaa gggtaagatt ggagctttgt 120  
cctcattcca gacctcatca atgtattgca ctataattgc agattcacaa atgggcttgc 180  
cattatggat cagaactgga attttcttga gaattgagtt catttgcgaa gcacaggact 240  
cttgttccta agaattctct ccttgacacc ctgttcagct aatgcaatcc taaccctcat 300  
tccaaacatg ctagcccatg tatcctacag aacaacctcg tctgccatcg ttgcaaagga 360  
tcacaaaaac accaactcat gttatgaact tgccaaacag tgtagatatg ttgtggacta 420  
acacgaca 428

<210> 7279  
<211> 588  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7279

agctttttaga ctcaggcgtg aaccctacct caccaatatt gagagacaat ttttacaatt 60  
aaattaagaa gtaccattca tataatatct cacattaagt acaataatgc aaaaagaaga 120  
aattgaaaat gggaacaaag ccaagatgaa cctgtatcga aaagagcaac aattatgtca 180  
ctatttgatt tcaatcttct cttagcaatt gtaggtaacc caatgaagtt ccatgatctt 240  
gttgtgtgca gctggcagta ctggttttga aacaccaaga gcacttcac ccatggatata 300

catgcaaaaaa ggggtaataa cataatatat agtattttcaa agaaagatga aagagctaga 360  
gaaaaattgaa aactatctat accagataac tnttttgctt catcctctaa cagtttttgca 420  
gcaaatgcat ttaaggtatt tgtgtaacta tataccatga attctttttgc ttcaaggaag 480  
ctaagtaagc acaaaccana atccaaatga ttttaagccaa aaggataaaa atagagaatt 540  
caaaaaaatg cttctcacat ggtttaagag ggtgggtttta ctttttta 588

<210> 7280  
<211> 548  
<212> DNA  
<213> Glycine max

<400> 7280

agctttttaga ctcaggcgtg aaccctactt taccaatatt gagagacaat ctttacaatt 60  
aaattaagaa gtaccattca tataatatct cacattaagt acaataatgc aaaaagaaga 120  
aattgaaaat gggaacaaag ccaagatgaa cctgtatcga aaagaacaac aattatgtca 180  
ctatttgatt tcaatcttct cttaacaatt gtaggtaacc caatgaagtt ccatgatctt 240  
gttgtgtgca gctggcagta ctggttttga aacaccaaga gcacttcac catggataca 300  
catgcaaaaaa ggggtaataa cataatatat agtattttcaa agaaagatga aagagctaga 360  
gaaaaattgaa aactatctat accagataaa ctttttggtt taatctctaa cagtttttgca 420  
gcaaatgcat ttaaagtatt tgtgtaacta tataccatgg aatctttttg cttcaggaag 480  
ctaagtaagc acaaaccaaa atccaatgat ttagcccaag ggataaaatg gagaattcaa 540  
aaaatgct 548

<210> 7281  
<211> 527  
<212> DNA  
<213> Glycine max

<400> 7281

tggcgataaa ctttggtgtg agagctaaaa gtaacagtga caaatacttg taacttttgt 60  
gaaattagtg aaacttgatt gctaacaaa aactgaactt agtctgaatg gtagagacaa 120  
accaatataa atatgggtct tactttcttt ttagttatct tttgtcttaa actgacatag 180  
tatttgaatt tgatcttggt tgaaaaacat attctatttt ttaaaatatg tttccatcgt 240

ctaaacttgt ttttgcgcaa atttggtatc tcgttttatt aagttatact tcaaattgata 300  
 actttaattt tcacgaaaaa agacttaaga aaattctaaa attacaattt aacccttat 360  
 gatatttcta attgtagtta ctttttttaa gactttactt ttgatcactt aataacattg 420  
 aaattcatag tctattaaat ttattattaa ataacctaatt tattgcacag agtttttgtg 480  
 gagacgactc tatttatcgc tattgctacc tgaaggattt aatactc 527

<210> 7282  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<400> 7282

agctttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcac tcctctaattg 60  
 actatggcat catttctagc actaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aagtattgga gaagaagctg ttctgaaatc 240  
 tgatgggtggg ggcaactggc acatagtttc ttaaactctt ccagtactc atacaggctc 300  
 tctccactga gttgtctaatt acctgagata tccttcttta tggctgtggt cctggaagca 360  
 gggaaatttt tttctaagaa tactctctta aggtcatccc agctcgtgat ggaccctgga 420  
 gcaaggtaat acagccagtc ctttgccact ccttctaattg agtgaggaaa agccttcaga 480  
 aatatgtgat 490

<210> 7283  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<400> 7283

agcttcacga gttgtcttct ccagataatc tctagcaatg tgcattttct catcagtaat 60  
 atacctagca atagcaacat cctccattct atccaacagg ggattaggta tcatttccac 120  
 aaaatttgta gtgcaaacaa aaagaacctg caccgagaaa aacaatacgt tcaagaatta 180  
 cttgaccatc ctaagaacta cctatcaaca atgaacacaa ctaataacca aacaaaaatg 240  
 ttgactatat cacaacctca ctattaaggc tccaaattat caaataaata cctttgatag 300

atcaatggtg acatcaagat agtgggtccag aaaaatagca ttctaattctg gatccagaag 360  
 ctctaacaaa gcacttgctg gatcactaac atgtgctctg cccaactaca attgaataaa 420  
 aagataatag cgctaaaatc ataatttttt ccttgatatt tacaagatta taacccatgg 480  
 gtaaattaat gaaactgaaa tg 502

<210> 7284  
 <211> 486  
 <212> DNA  
 <213> Glycine max  
 <400> 7284

agcaggcatc catgtcgctg cgttgatgag cgagtgtttt ctaacttgaa ttcaatgaaa 60  
 caaaatcctg atagctgccg atgaatactc tgcatagctg atattaaacc ttgtgggaca 120  
 cttgtatttc cctttacacc agagaatttt cctattgact gctatatgat acctatagaa 180  
 ctaacacttg ttgtcattta aatgacagat taccgggtca ttacaaatat gtcgactgtc 240  
 aatgatcaat atctaacagt aatgagaatt caatttctgc agaggaagag gataacatca 300  
 tagtttcagc ccatgcaatc catggaaaca aatgggcaat aattgctaag cttcttccag 360  
 gtagaacaca ctatgcaatc aagaatcact ggaattctac actgacgcgc aagcgtatgg 420  
 aaaagggaaa atatgtccca gcacatgctg atgtgatcga aaaagggtact ggtaactttt 480  
 aaaaaa 486

<210> 7285  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <400> 7285

agcttggcaa actattgttg acacagaagg gatattttct ctagatagaa gcataatatc 60  
 atctgcaaaa gccaaatgag atagctgaat acctgcacag ttgggatgaa atttaaaatt 120  
 ggcatcatcc ttgaggctgc tcatatctct ggaaaagtac tccaaacaga gcataaacag 180  
 ataaggggag agaggatccc cttgtctaag acccgcgtac cttttgaagt gaccataaat 240  
 ggatctattg actgccacac taaaagaagt ggaagaaaca cattccatga tccaagttca 300  
 gaactggggtt aggaaagcca tggacttaag cattcaatcc aagaattccc ggaaatggaa 360

tcattagctt tatgcaagtc aattt

385

<210> 7286

<211> 480

<212> DNA

<213> Glycine max

<400> 7286

agcttctgag ttaaaagtta ttgcagtttt tatttgctac aagcttccgc tttcaactac 60

gagcgtctcg atatattact ggactcaatc gatcatcaga gcaaaaagtt attgtcgtta 120

gaatttggtc agtgcttccg ttttcaattt ggagcgtctc gatatattac gggactcaat 180

cggacatccg agtaaaaagt tattggtggt agattttgct catagcttct atttgaattt 240

gctacgagct tgcgttttca atttggagcg tctcaatata ttacgggact caatcggaca 300

tccgagtaaa aagttattgt cggttgaatt cgctcagagc ttctattctc aattttgagt 360

gtctcgatat attacaggac tcaatcggac atcggagtaa aaagttattg tcgtagatt 420

ttttcagagc tcccgtttca atttggatcg attcgatata ttacgggact caatctgaca 480

<210> 7287

<211> 501

<212> DNA

<213> Glycine max

<400> 7287

agctttgatg caacatttgg agagggttaat gaaacaacta gatgatgagc tccatgagag 60

gttggatcaa atggtgaata gagatcataa tgaataagaa aggacgagaa aagggaatga 120

tggtgttcct atacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180

aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240

ctacaactat gaggaggacc agaagggtgaa gcttgccgcc acggagtgtt cggactatgc 300

tcttgtgtgg tggaacaagc tacataagga gagagcaaga aatgaatagc caatgggtga 360

tacatggaca gagatgaaga agatcatgac gaatcggat gtgccggcta gttactcaaa 420

ggacttgaaa ttcaagctcc aaaaactaac ccacagcaac aatgggggttg aggagtattt 480

caaggaaatg attgtctcat g 501



<210> 7288  
 <211> 519  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7288

tgtaatagaa gaaggaagtc cctggaaaat tcacatggtc ataatttttt gtcggatgt 60  
 ccaattgagg ccataatat atcgagatgc aggaaattaa gaattgcagc cccaagaatt 120  
 tagacggcca taacttttga ctcatgatgc caattgaagc acataatata tcgagacact 180  
 cgaaagtcaa caagaaagcc cggggcaatt ccaaacaacc acaacatttt atttagaagt 240  
 ccgattggac ccataatata tcaagacact aagaaatgaa caaaagcctc ctggaaaatt 300  
 caaacgggca taacttttaa ctcaaatttc cgattgaggc ccataatata ttgagacact 360  
 caaaatttaa caaggaagca tttggaaaat tcaaacggc cataaatttt tactcagatg 420  
 tccgattgaa gcccataata tatcgagatg ctcaaatttg aaaatgaaag tgatgcaatc 480  
 ctacctcctt agggcattgg atacaagact ctatgaaga 519

<210> 7289  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<400> 7289

tcaagaatca agatcaagat tcaagactca agattcaata atcaagataa gtatgaaaag 60  
 gttttttcaa aaactgagta gcacatggat tttttctcaa acatgtttac caaagagttt 120  
 ttactctttg gtaatcgatt accagatggt tgtaatcgat taccaatagc aaaatggatt 180  
 tgaaaaagtt ttcaaatgaa ttacaacgt tccaattgat ttcaaaaagc tgtaatcgat 240  
 tacaatattt tggatgatga ttaccagtgc ctttgaacgt tgaaattcaa attcaaaagt 300  
 gaagagtcac atcctttcac ataaaagctt tgtgtaatcg attacactga tttggcaatc 360  
 gattaccagt gattgtttct gaataaatca aacgatgtaa cttttcaaatt gggttttgac 420  
 tttttcgaat aggatctaag ttttataaaa gttataactc ttctacatgg tgctcttgac 480  
 cagacatgaa gagtctatac aagcaacgct ttgtttgcat ttcta 525

<210> 7290

<211> 525  
 <212> DNA  
 <213> Glycine max

<400> 7290

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agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggg gttgaattaa catattcgaa actttttccc ctaattaaaa 120
atctatctta ctttttactt aaattatgaa ttcccttaat gacaatcttc ttaaataatta 180
attcaaataa agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
aagagaaaat gcaaactcag ttttatactg gttcggccac acccttgtgc ctacgtccag 300
tccccaagca acccgcttga gagttccact aacttgtaaa ttccttttac aagttctaaa 360
cacacaagga caacccttct tttgtgttta gagattcttt acaacaagag actcacagtc 420
tcttaatccc ttagagaatg agatgaagaa gaggaacaca tctctcttga gagagatgga 480
tgttacagat tgagcactca attaatcct taatgaattg caatt 525
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<210> 7291  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7291

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agctntattg gtacaatttc tttaaatctg gtattataaa caatttttat aattgggtga 60
aatctttttc cgtcaacgaa tttaggagta acctgggcca caagctttat ttgtacaatt 120
tctttaaatc gtttttcata aacaattttt agaattgggt aaaatctttt tttcaattcc 180
aaatatttga ttttatactc ttatttttat tccatagctt tattgtcact ataattctga 240
aatatgttat tttttatcat taaatatggt atattgaatc taattaagtg atctaactct 300
ggtttttagta ttttaaccagc aaaattgcat gtttaacta taccgtaa atgttagatc 360
atctgacatt cacatatcaa tcaacatgat atctatgcaa gtatgtaact ggtcacacgt 420
gacaagtgtt gcatgcat 438
```

<210> 7292  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 7292

ccgaacacct tgtttttctc atgtgcacgc aaacccaatc ttcgggttcg aagacaacct 60  
tctttctccc tttgatggcc tgtctagcat agctgttatt tctcctcatc aaaagacttt 120  
tgactctctc atgaagcgac ttcacatagt cgggcttggc attaccttct ttgtgcttaa 180  
aaacagacac attatgcata tgcaaatgat caagacgagt tagtgggtta aaaccataaa 240  
caacttcaaa aggagaacaa ttagtgggtgc tatgagcaac tctatcggta gcacactcaa 300  
catgggggaa acaagctttc catgttttta agttctttct caaaactgtc ct 352

<210> 7293

<211> 422

<212> DNA

<213> Glycine max

<400> 7293

tccatcactt gatagggttag atccttcacg ttcttcgaat ggacataggt atatcttgg 60  
tgctgctgag tatttcacca agtgggtgga agaaattcct ttgaatgttg atcaagggga 120  
tataataaac ttcatagaac aaaatattat ttttcgattt agtatcccat aaacacttat 180  
aacagggtcaa ggcaccattt ttattgatcg aaaagtgggt caatatgtca attctcaaaa 240  
tattaagtta gtaacttata ccccttatta tgctcaagca aatgggtcaag ttgaagccat 300  
aaacaagatt ttggtaaggt taattaagaa acatggccaa aaacctagaa gttagcatga 360  
aagtttagac caaattcttt aggttatca aaattcacca aaagggggcc cactattgta 420  
ct 422

<210> 7294

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7294

anggaccttt atacatagac cctttcctca natgatattg ttttattatc atgtncaccg 60  
accaattgac gctcaciaaac gtgcacactt ggcttatgtc atgggcaaag aaccttgtt 120  
attttattat tacacaaaaa ctactgaaat acctcctggc ccatgcagct gttaagttaa 180

caatatacaa atatttatat tatgataact cctaataatat ttataatgag aaactatattt 240  
 aaacatatat ttacatatat ctcttgtgct catatatgtg tgtatgtatg gatatgcttg 300  
 caacgataac attaaaaacta acaataaagt aaattaaaaa catacagatt tataacatat 360  
 ttttatatta aaacacatac 380

<210> 7295  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 7295

gactgctcta gcacagctca tgacatgaaa tacagtcgcg tctgaccttc cttatcgagg 60  
 agcagaacgg tggatttggc tctctcccat atgagctcat cgtcagtgag taccgaagta 120  
 tcacttgtgt tttctttcat acgattgacg atcttatttg catttagaga gatgctcatg 180  
 ctcatgacat ggcaactaac gctcaagacc taaataaaaa atataccatt tactgtacat 240  
 aatcatttgt attgcgcaat ttgttgtgta aacc 274

<210> 7296  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7296

tagaaactta agccttatag aaggttcggt cctaatttct ctacaattgc atctcttctc 60  
 aatgatctgg tgaagaagaa tgtggcattt acctgnggtg aaaaacaaga gcaagccttt 120  
 gctttgctca aagaaaagct tactaaggca cctgttctag ctcttcctga cttttctaaa 180  
 acttttgagc tagaatgtga tgcctctgga gtgcgagttg gagctgtatt gttacaaggt 240  
 gggcacccta ttgcttattt tagtgaaaaa cttcatagtg ccaccctcaa ctaccccacc 300  
 tatgataaag agctttatgc cttaataaga gccctccaaa cttaggaaca ttaccttggt 360  
 tccaaggaat ttttcattca tagtgatcat caatcactta agtacattag agggcaaagc 420  
 aagttaaaca aaaggcatgc aaaatgggta gag 453

<210> 7297  
 <211> 441

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7297

agcttgtggt gcatgtgttg atgctgctgt ttgtcagggt gaccttggtg aagtgaatgc 60  
 tctagcagag ctaatgacat ggaagacagt tgtagcggac attccttatg gaggagcaaa 120  
 ggggtggtatt ggctgcaacc caaaggagct cagcgtcagt gagttaggaa gtctcacttg 180  
 tgttttcttc caaaagattg atgatcttat tggcatttag agagatgttc atgcccctga 240  
 catgggaact aatgcacaag ttctaattta attatattcc atttccttac ataatttttt 300  
 gtttggggca atttccttatg taaaccaaca tctagaactt ttatttatta ttctatcatt 360  
 ttcatttggt tactatttca ctgacaaagg cttgcattct tgatgagtat tcanagtgtc 420  
 ntatagntta tattatcaat a 441

<210> 7298  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <400> 7298

tgcaagctac tgctctcaag caagcactac atgtgtatatt agttccttta tacttctatg 60  
 gtctgtgagt ataatgaatt ggtggcccag taaatactgg cgccacttct tcacggctga 120  
 gggttatggcg gcgagctcac gaacgtaggt cgaagtgtgg agcaatttcg ggcaaaaagc 180  
 tttattgaaa aaggcaatgg ggtgattctg ttgagaaaga atagcccca ttcctattcc 240  
 caatgcgtcc atttccacca cgaatggcag ggaaaagtcc ggcaaccgca agactacggc 300  
 gctacagatg acttccttga gcttgacaaa agctgctagg gctttcggcg accagcataa 360  
 cttgtctctg gccaggagct gagttagagg tgctgcaatt gaagcatacc ccttaatgaa 420  
 tcttcgatag aaacctaata aaccg 445

<210> 7299  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7299

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 ggagttaagc aagcgcagag acatattgtg gtgaataatc ccccaaagag gtatgatgta 120  
 ttccatatga ttattcattc catatggcta aggaggttga atgtgcgtgt gaaataagtc 180  
 atcaactcta ttatgttctc tctctattca tacttttgct aatggtttta aagtttaatt 240  
 gtttgacctt caatattttg atacttaaaa gataatagat tcgagtataa ttttatctta 300  
 tatgactaat aattnttaat caagagtcac ctcttttgct acttaataata aatataacaa 360  
 taagagagat gactctacga aatatgaata ttttttggtt tgaagtgtcg ttgcgtcaaa 420  
 catattttta naatcaacac attgagacac ttg 453

<210> 7300  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7300

gctgctatca attactttct ccatgattct gttgctctat catatacagn gagcttgcac 60  
 ccatccgggc aacctaatgc atatagttgt ccattcagag agatacaatc tttatcccat 120  
 ccattgacca ttccattagc aactacggtc caagtatcag tttcaggtga ataggcttca 180  
 cacatggaat taccactccc aattgcattt cccttgaaaa accatgttcc attgtgaaca 240  
 acaccaaata aaggcaccat ggatgtgctc atctctgata ttaaattcca cctgttttgg 300  
 ctgggggtcat aaacttcagc agatcgagtc atttgaattc cttcaagttc cccaccagac 360  
 acataaagac aattatttat cacacaagaa cgaaacagat tacgtttctg cagcatatcg 420  
 ggtgccctat g 431

<210> 7301  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7301

aataaatcac tcatagtgtg taaaactcac acaggcatgt gttttatcct attcccaaac 60  
 cataactgca ccatgacttt attttgaca cgacttccta tcgaatcaaa aataaaacgt 120

acgatcacgg accaatagga ttttctcgag ggtagtgggt ttttggagag gaagttgggt 180  
gtttatgtct tttcctcttt gttcaggtgg ggtgggatat cgccagtcga gaacgacctt 240  
gaatggcaat ctgaagggaa gagacaccaa aaatggggtt tcctttgtcg gcagtcacct 300  
accttgccga aaatttatct ggcttgaaga atttctgtcc tctttctttc attgatcgag 360  
aattgcttcg tttccctttt cacttccttt cgatctttga tcgggaatcc ttccttttct 420  
ttcttttggt tntttctt 438

<210> 7302  
<211> 449  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7302

aagctttaat gttaaatctc tatttattat tataaaggaa tnatgattat cnntttatat 60  
actcactgng ggaaaagaat aacctctgt gacttcttca agtatcctcc tcctttcatg 120  
tatttcataa taagggttaa gaaaggtgaag aaaatgttat ccaagtggct tcaataaatt 180  
taagagggga gtaaattgat tttataaata ttttctttgt taatataatc taattcattt 240  
ttctatgata aatataataa tatattaaaa ctttgattaa aaagagaaaa atatgcaatt 300  
aagatctcta ccaatataaa tgaatatagt aaatttacia aaaaaagtaa agagataatg 360  
taagagagaa ttggaaattc gatttatact gatctgggta tgtctatgca ggttcagtcc 420  
ccaagcaatc cgcttaagag nttcattat 449

<210> 7303  
<211> 341  
<212> DNA  
<213> Glycine max  
<400> 7303

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tgctttgctg atggcttctt cccgttccaa ggcttaattg gagtcttgct ttttacagac 120  
ttatatggac gtctgtggag tatgtaaaca gcagtgtaga ctgcttcac ccaaaatgtg 180  
ctatgtagtc cctctttctt gagcatcgat ctagccatct ccatagctgt gcgattcttt 240

ctttcagaca ctacattatg ttgaggagaa tatgcgactg gtaggagtct ctcagtgcct 300  
 tcacccacac aaaatcttgt caactcgca gaggtgtact c 341

<210> 7304  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7304

ctttatgcc tctcgggtca tctggcctta taaacacttc ttctatttgg ccgngttttt 60  
 catcagaaca tgggtcatcct catcgacgga ggaagcacgc aaaatttcat gcaggaacga 120  
 ctgggtcgtt cctcgggtct caaggcacag ctacgcacgc tgcttcgggt cgtggtggga 180  
 aatggcaacg agttagcttg tcatcaactt tgctccgggt tcatgattag cattcagggc 240  
 caaacgttct cgggtgacct tcatgtcctt cccctttgcg gagggtgactt ggttctcggg 300  
 gttcagtggtc tgaaatccct tggccctggt cttaccgact ataaggatct tacattgaaa 360  
 atcattcatg atgganaaat aatagaatta anaggggaata tggacgatgc tcttcacccc 420  
 gtcactccaa c 431

<210> 7305  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7305

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 gtgtaaaacc gttaaaaaat aagtcaacaa gttattgcat gcaaacttta tcagagaggt 120  
 ccgattctct acttggtctg ccaacatcat cataatcaaa aaggccaacg ccaaattggca 180  
 aatattcatc gactacactg atttgaatag ggcattgccct anagacgcac accctttgcc 240  
 caacattcat agactagtcg atgggacatc cgagttccag gtgcttagct tcctagatgc 300  
 ttactatgga tacaaccaat tcaaaatgca tcctctagac aaggagaaaa tgacattcat 360  
 cactaaagat gccaaactnta actgcaaggt caagccaact ntagtggtgt tgggtatggt 420  
 agagt 425



<210> 7306  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 7306

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agcttatccc atgtctccgt agcagatggt ttatcaaaaa tcttttctaa tgcattcatca 60
tctaattgctt gatagatgac gaagaaagct ttcttgtgtc tctttcttga attcctaaaa 120
gtctcatttt gtgcttagga cagcgaaatc tccttttgca actccttata gccttcttca 180
accatatccc aaacatcatg tgctacaaga caggcctcca ttttggtgct caaattatca 240
tggtgctccc ctttagaagt ggaactagga aggatgccac tccattgctc gccatgacta 300
tagagggatt tcttatcaga acctaagctc taataccact ttgttgg 347
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<210> 7307  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7307

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ttgctgctga gtatttcacc aagtgggtgg aagaaattcc tttgaatgtt gatcaaggng 120
atataataaa cttcatagaa caaaatatta tttttcgatt tagtatccca taaacactta 180
taacagggtca aggcaccatt tttattgac gaaaagtgg tcaatatgtc aattctcaaa 240
atattaagtt agtaacttat accccttatt atgctcaagc aaatgggtcaa gttgaagcca 300
taaacaagat tttggtaagg ttaattaaga aacatggcca anaacctaga agttagcatg 360
aaagtttaga ccaaattctt tangcttacc aaaattca 398
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<210> 7308  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 7308

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caagtgcct tagatatctt aagaagggtt ggtaattat tatatcacag actattcttt 60
tatttaaaaa attctactgt taatggaacc ctacaacca ggatttcttt taaacaagaa 120
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ctcctacata ataatgaaaa ttaatcttac taaatagaaa taataagcaa taagcaataa 180  
aggagtttaa gggaagagaa aatgcagact cagatttata cgggttcggc cacacccttg 240  
tgcctacgtc cagtcccaaa gcaaccgct tgagagtttc actatcttgt aaaatccatt 300  
gacaagttct gaaccacaca aggacaac 328

<210> 7309  
<211> 445  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7309

agcttctcac tccctcgaca tttataggag ttggtagcat ctcgattctt caatcttagc 60  
tatgtctact tcaatccccc tcatggagat tttgoggccc aacacaattc cttcttgca 120  
cataaaatga cattttcccc aattaagcac caagtttgcc tctttacacc gctgcaacac 180  
tcgctctaga tttgctagac aataatcaaa agatgagctg aagatggaga agtcatccat 240  
aaacacttcg atacatttct ccaccatgtc agcaaagatt gccatcatac atctctgaaa 300  
agttgcagga gcattgcaaa gaccaaatgg catttgcccta taggaaaaca caccacaagg 360  
gcaggtaa at gttgtcttnc ttggtcattt ggatccacaa caatctgatt gtagccaaag 420  
tatacatcta agaagcaata gaatg 445

<210> 7310  
<211> 445  
<212> DNA  
<213> Glycine max  
  
<400> 7310

ggaccaggaa ttatttgtat gggttggatg ttgaattctg tttgttcctg gtgttgagat 60  
gatggtacag cgggtgaacc agaagctgaa gtttcttttg gtgaggtagc catggaaaag 120  
cagagcgttt gaaatgattt cgtaaacttc agaaaactat tgggaaatgc tggtgaaaac 180  
acgaatgtca cgaaaatata aatttgaata aggaatgtag agggccgtgt gaagcaacgg 240  
tcgaatttgc cttgggtcag tagtgaacgt gctattaatg ttaagtgatt cgtttgggca 300  
cgttcagata tcagtagttg ctacaattcc tctagcagac aaatgcccag cttgcccctc 360

agtttttcaa actgatttgc atccaaagcc tttgtgaaaa tatctgctat ttgttcctca 420  
gtgtcaacat gcttcagtgt gatca 445

<210> 7311  
<211> 392  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7311

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gctgccaag tttcatggtc ttgcacgtga agatcctcat aagcatctta aggagttcca 120  
tattgtttgt tccaccatga agccccctga tgcctaagca gatcatatct ttcttaaggc 180  
ttttcctcat tctctagaga gagtggcaaa agattgggtg tactaccttg ctcccagatt 240  
catctctagc tgggatgacc ttaagagagt gttcttggag aaattcttcc ctgcatctan 300  
gaccactgcc atccgaaaag acatttcagg catcaggcaa cttaatggag agagcttgta 360  
tgagtatttg gaaagattca agaaaatgtg tg 392

<210> 7312  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7312

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tcgattacac agtgcaaatt ttgaattcaa taacttagac aaaagtaaag cataaataaa 120  
aagtgcacaa cggaaaaata aagagggttag ggaagaagaa agcaaacaca agatttatac 180  
tagttcggcc acaaccctgt cctacgtcca gtccccaagc aaccaccggt tcttgagatt 240  
tccaataacc ttgtaaaatc ctttacaagc aaagatccac aagggatgta ccctcccttg 300  
ctctctttga acaaccaagt ggatgtacgc tccacttgaa ctgatccaca agagatgtat 360  
cctctcttgt tcttagtatt acaaccaag tagatgtacg ctctacttgt accacaaatg 420  
atatnatgct caatat 436

<210> 7313

<211> 283  
 <212> DNA  
 <213> Glycine max

<400> 7313

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 tgtacctgtc gcaaggggttt gtgggtctgtg ctctcttact gaccaccata caaacctttg 120  
 cccttccatg cagcaacctg aagcaattga gcaacctgaa gcttatgctg cacatattta 180  
 caatagacct cctcaacctc agcagcgaaa tcaaccacaa cagaacaatt atgacctttc 240  
 cagcaataga tacaaccgct gatagaggaa tcaccctaac ctc 283

<210> 7314  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7314

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 ttgccaagt ttcattggtct tgcaggtgaa gacctcata aacatctgaa agaattccat 120  
 attgtctgct ccaccatgaa acctccagat gtccaagaag atcacatctt tctgaaggcc 180  
 tttcttcatt ctttagaggg agtggcaaag gactggctat attaccttgc tccaagggtcc 240  
 atcacgagct gggatgacct caagagagta ttcttagaaa atttttccct gcttccagga 300  
 ccatggccat cagaaaggat atttcaggca ttaggcaact cagtggagag agcctaaatg 360  
 aatactgnga gagatttcaa aaactatgcy ccagttgccc tcaccaccag atgtctgagc 420  
 aacttcttct ccaatatttt tatgaag 447

<210> 7315  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7315

gaccttagat actcagctga gtttaataaa tggatgataa tttttcccca atatacatat 60  
 aataatattg ccaaatecct atcctttgat gttgtcgaac tattcttgaa gaagattcta 120

tatagacgta gatcaatata tagagtgtgg ttacattaat tagggatcaa ataatggtat 180  
atcaaaatct tgaagaaaga agaatttcaa atgctactac gtaccattgt ggcataaaga 240  
tgacactagc agaaagattg ttaattaaac aacaggaaga atataagcaa agattcttga 300  
agcaatacat tgatgcctct catctcanat gacaaagaga ttcaatacaa caaagcaacy 360  
attgtttctg aaggtagaaa ataacttact ataatgtttt ggattgccgt ttcatttgaa 420  
ttgatgtact aaaaaacaac attc 444

<210> 7316  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7316

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ggtgagtata atgttagttc caccttcaat gtctctgatt tatctctttt ttgatgcaga 120  
tggagaatcc gatttgagga caaatccttc tcaagagggg gagaatgatg aggacatgtt 180  
caagagcaag ggcaaggatc cacttgaagg acttggagga cctatgacaa gggctagagc 240  
atggaaaagcc aaggaagctc ttcaacaagt gctgtccata ctatttgaat acaagcccaa 300  
gtttcaagga gaaaagtcca aggttgtgag ttgtatcatg gcccanatgg aggaggacta 360  
aatgacacca ctttgtctca attntagagt gtttagtttg tctaaataat ggcccaatcc 420  
ttgtaaagt 429

<210> 7317  
<211> 444  
<212> DNA  
<213> Glycine max  
<400> 7317

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tcaaaatgac tctgaattgt tttgtgaaca aaatggcatt aatcgtaact tttccgctcc 120  
aagaacacca caacaaaatg ggattgtggg gaggaaaaaa aagtccttg aggaacttgt 180  
tagtgtttag ctctactgag ctttaaaaga ttggctaaga ttttgtaaa acataagcac 240  
ttagacaatg aaggaaagct ggagttgctg cacatgatgt ccaacgctat gtcaaggaat 300

aagatcgggc tgcacaatgc acaaggcaag ataaaatgtc aaatgaagaa ttgaagttgc 360  
 aggatccacg atgtcggata caatgtcctg acatcctgcc cgagaatact ggagttgctg 420  
 tacaatgcaa gataaaagtc aagt 444

<210> 7318  
 <211> 308  
 <212> DNA  
 <213> Glycine max  
 <400> 7318

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 agttatagtc gcttgaaaaa gctacgagct tccattatca acttgaggca ggctcatata 120  
 ttacgggact caatcggaca gccgcgtata aagttatgga caattgaatt tgctaagagc 180  
 ttccgttatc aatctggagc gtctcgatat attacaggac ccaatcggac atccgagcat 240  
 aaagattttg tcgatgaatg agctacgagc atgcgtagaa acctggagca tctcgaatat 300  
 taccggac 308

<210> 7319  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7319

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 cgcttacgca aaagatcaag aagagtgagt ggattaaaac catatacaac cttcgaagga 120  
 gaacaacttg tgggtgctctg aacagctcta tagtaagcaa atgcaacatg ggcgtaaaca 180  
 agcttcccaa gatcgtaagt tattcctcct aactgctcta accggagagc ccaaagacct 240  
 attaacaact tccgattgcc catcggtttg aggggtgacat gtggatgaaa atcacaatct 300  
 agtgcccaac ttg 313

<210> 7320  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 7320

agcttcaaac ttgttactag gagtcgagtt ggtaaaaaag attcgtcttc aaactcttag 60  
agggtgacttt gagcgtttgt ttatggagga gtccgagtc aattctgatt atttttctcg 120  
agtattggcc gtagtcaatc aacttaaaag aaatggtgaa gatgttgatg aggtgaaggt 180  
catggaaaaa atacttcgaa ctttaaatcc aagttttgac ttcattgtta ccaacattga 240  
agaaaacaag gatttaaaga ctatgactat tgagcaactc atgggttcct tacaagcgta 300  
cgaagaanaa caaaagagaa aaatttaaca aaaggaggct actgagcaac tactacaac 359

<210> 7321  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7321

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ccctcatgaa gtcattccaca gcctcttcta caataagtac aacgactcac ttattacggt 120  
attcgttaat gctcatgaga tattcaactc tttcaaatgc agatccaaaa acattgagtg 180  
attgcattct gtgtctatcc attcaaatcc tcctctttga tcgatgttta aaacttattt 240  
tgcttacatg atttttcatt tatgttctta gatacattcg gaggggcaag ccggatgccg 300  
ggttttctct tttccagtct gaatgtttga aatgggtctgg atatgtagag tttgataatc 360  
taaaaaaaaaa tgtcctaact tacttagcag aaaataagta ccttcctcng tctcttatct 420  
ttctattcca cctctactgt taatct 446

<210> 7322  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7322

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ataacttttc acccggatgt ccgattatgg cgaatcacat atcgagacgc tcaaaattga 120  
acaacggaag ctctgagaaa attctaattg tcataacttt taactcggat gtccgattca 180

ggcgcataac atatagaggc gctcgaaaag gaacaacgga agctctcgag aaattcaaat 240  
 ggtcataact ntccacactg aggtccgatt caggaatata atatatcaag acgctcgaaa 300  
 ttaaaccatcg gaagctctcg agaaattcaa ttgggtcatca catttcacac ggatgtccga 360  
 ttcgggcgca taatatgtcg acacgctcga aattgaacaa cg 402

<210> 7323  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7323

agcttgaatc ggatttcaat gtgaaaagtt tttactatatt taatttcccg agagcttccg 60  
 ntgttcattt togagcgtct ctatacgca tgccgacctaa tctaaccatcc gagcgaaaag 120  
 ttgagaccat tatgacatcc gcaagagcat ccgctgttca atattgagcg tatcgatatt 180  
 agatttggct gatattgtaca taccgagaa aggctaggac catataatac tggatagagc 240  
 tcacgcctgt atatagctag cctctggaat aatcatgcgc aacaatgaag aatacttcta 300  
 actagtgatg accattggaa ct 322

<210> 7324  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <400> 7324

tctagatgag ttatgtctgc gaatcgtaca tcctgtgaat agttatgacc atttgaattt 60  
 ctcgagtgtc tccgttggtt aatttcaagc gtctcgatat tttatgtcct caaatcagac 120  
 atcggagcga aatgttatga ccattcgaat ttgtcgagag cttccgtttt tcaatttcga 180  
 gcgtctagat gagttatgtc accgaatcag acatctgagt gaaatgttat gaccattcga 240  
 atttgtcgag agcttccgtt gttcaatttc gagcgtctag atgagttatg tcaccgaatc 300  
 ggacatccgt gtaaaaagtt atgaccattc ggctttgtcg agagcttccg ttgttcaatt 360  
 tcgagcgtct cgatatatta tgtccccgaa tcggacatcc gtgtgaaaag ttatgaccat 420  
 tggact 426



<210> 7325  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7325

ngctaaccaca tggaagctcc taatatctcc cacacttttt gnggtgggcc attcttggat 60  
 ggccttgatt ttctcagggc cgaattggac cccatttcta ccaactacaa atcctaagaa 120  
 aactatacta tctacacaaa aggtacactt ctctatatatt gcatagaggg tgtttttaat 180  
 aaggactgaa agaacttgcc taagatgtcc taagtgatca tctaggctct tactgtacac 240  
 taaaatatca tcaaaataaa caactacaaa tctacctagt aaatccctta agacataatg 300  
 cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatta ctagccattc 360  
 atacaaacca aacttggctc tgaaagcggc tntccactca tcaccctttt tcctcctgat 420  
 ttggtgatgg ccacttttaa caatcaattt tgaaaa 456

<210> 7326  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
  
 <400> 7326

tgagtccttt catatatcga gacgctcgaa atggaatacc gaagctctga gcaaattcaa 60  
 acgacaataa ctttttactc ggatgtctga ttgagtcctg taatatatcg agacgctcga 120  
 aattgaatac cgaagctctg agccaatgca aacgacaatt aatttttact cggatgtctg 180  
 attgagtcct gcaatatatc gagacgctcg aaattgaatt ccgcagctct gagcaaattc 240  
 aaacgagaat cacattttac tcggatgtct gattgagtcg cgttatatat cgag 294

<210> 7327  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7327

agctagtaga agcaagaatt tctttctggc cttaacgag gacnccgaaa aggcctatga 60

ctcattctca tgggtcttttt tggattatat gctgcaaaga atgggcttct gtccccaatg 120  
gagacaatgg attcctgtct gtctcaactc accaaccata tcaattcttg ttaatggcag 180  
ccctacaaag gagtttgctc ctactatagg gttgaagcaa ggggatcctt tagccccctc 240  
tgcttttagc atatttggag aaaacatcac aggattgatg agggaagc 288

<210> 7328  
<211> 434  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7328

tacccccctgc tttgattgca ttcaaaggtc atgntctccc gannggcccc tctnggcaca 60  
tgcttggtt ggggttatcat aacaaaactg acattgagag tttgaggaag gctgctgtta 120  
ttcatttcaa tggccagtca aaaccgtggt tgcaaattgg ctttgatcat cttaggccat 180  
tttgaacaa gtatgtcaat tatacaaatg attttgttag gaactgtcac atcttggatt 240  
catagtctgc catgagatgc actatggttt gaaacaacag tgcattgcata ctacgaaagg 300  
gacgagtaaa tacatgtttc atctaaatct ctgcggattg agaaggcaat ataaaaattgg 360  
ttgagggcaa agtgtgggtg gataatttgc ttgcaccccg taacattttt ccacacacag 420  
ttactatcct ggca 434

<210> 7329  
<211> 296  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7329

agcntagaat cattatctta tctccgacat ccattgggtg agtcctgtcc cggtagtccc 60  
gaagaagacc ggcctacag ngataaaaaa tgagaaggag gagctaattc ctactcgggt 120  
gcagaacagt tggagagtct gcattgacta taagaggctg aaccangtta ccaaaaagga 180  
ccattttccc ctgccattca ttgactagat gctcgaacga ctggcatgtt aatcctcact 240  
actgttttct tgatggtttc ttctgctatc atgtaatatc tattgctctt tacgat 296

<210> 7330

<211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7330

tgatgcaaca tatggagagg ttaatgaaac aacgagatta ngcgctccat gttatgttgg 60  
 atcaaattgga gaacagagat cataatgaag aagaaaggag gagaagaggg aatgatggtg 120  
 ttcctagaca aaaccgaatt gatggtatta aactcaacat tcctcccttt aaaggaaaga 180  
 atgatccgga ggctactttg gagtgggaga tgaaaataga gcatgttttc tcatgcaaca 240  
 actatgagga ggaccaaaaag gtgaagcttg ccgccacaga gttttccgac tatgctcttg 300  
 tgtggtggaa caagctacag aaggagagag caagaaatga agagccaatg gttgatacat 360  
 ggacggagat gaaaaagatc atgangaagc ggtatgtgcc ggctatgtac tcaagggact 420  
 tgaaattcaa gctccaaaaa ctaa 444

<210> 7331  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7331

gacactatga tactaagctt gagaatatat ataaaagatc tatgactatn gaagaatcat 60  
 tcatgtgncc ttngatgaga ctaatgctat ttctccaaga aaggatattt tagatgatgt 120  
 agcagaatct ttagaacaaa tgcataattca tggacaatat tctaaaggaa aagggaaagg 180  
 aagcaatgaa gatcctccag aagaagccaa atcaaattgat gaacttccaa aagaatggaa 240  
 agcttcaaaa gatcatcccc ttgacaatat tattggtgat atctcaaaag gggtaacaac 300  
 tagacattct cttaaagact tatgcaataa tatggctttt gtgtctatgg ttgaacctaa 360  
 aaatataaat gaagccataa tagatgatca ttggatagtt gttatgcaag aagaactaaa 420  
 tcaatttgaa agaaaaaatg tgtgggaact 450

<210> 7332  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 7332

ntgaagaagc atcaaagcag gatgtatggg tcaaggcatt tgttagaaga gatacagatg 60  
atcgagaaaa acaacacatg ggagtttagta aatcggtcccc atggaaaaga tatcattggg 120  
gttaaatggg tctataagac aaagctcaac ctgatggcac catacagaaa cacaaggcga 180  
ggctaatagc taagggttac tcacagcaac ccggaattga ctacaatgag acatttgcac 240  
tagtagctcg tcttgatacc ataagagctc taatagctct tgcgtcacia aaaggatgga 300  
gtatccatca actagatgtc aaatccgct tccataatag cgtacttgaa gaagagatct 360  
atgtggagca gccacaagga ttcgtgtctg aaggcaaaga aagaaaagtg ttaagactaa 420  
gaaaagcact ctacg 435

<210> 7333  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7333

tgtcctgaac ttgtacaaaa tgggggttcgc tcgctgtcgt aacttaccct tcggcgggag 60  
ggcgacgcga gactcacggg tgcgtcttcc aagaaaggaa aatgcatgga gtcgccacca 120  
acgtttattt ggggaaaaca tccgaaaaac cgaaaaagac gtgggtctaca aactttaagt 180  
gtgaggttcg agagttgtat ttacgcacgg ngaaggatatt agcacctgtt agacaagtgg 240  
cctcagatat cttagaagg ggggggttgaa ttaagatatt ccaaactgtt tcccctaatt 300  
aaaaatctat tttatTTTTT actcaagtta taaattccct taatgacaat cttcttaaat 360  
attaattcaa atgaagcaac ttgaatatga atataaagca ataataaata aaggagatta 420  
agggaagaga aaatgcanac tcagttttat act 453

<210> 7334  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7334

tctattcaat ntagctctga tgggaaccac atgccatcnc tttcagattt gcaccaatag 60

gaatacccat gtagataaat gagaaagata atattctaca attcaagaat gatgaataac 120  
 gttcaatatc ttccctatcc accccaatac ccctaaatct acttttgtga aaattgactt 180  
 tcaatctaga tacaagttca aagcacctca acacactttt tacaacaacc acattgtcca 240  
 tggtgaactc tccaacaaaa attgtgtcgt ccacatattg caacaagttc acctccacct 300  
 ccttagcctt cactttgaac cctctatata tgtattttct tattgcccc cttattagcc 360  
 cacttaacc ttccgctata atagaataaa gaaaatgtgc tagaggatca ccgtgtcaaa 420  
 gccctcttgc atcatgaatt ct 442

<210> 7335

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7335

ctcagctaaa cattcaattt cgaggctctc gatataacg ggattatatc aagcatcctt 60  
 tanaaaattt attggcgctt gaatttgctc agagattcaa cattcaattt cgagcgtctc 120  
 gatataattac gggactcaat cagacatccg agtaaaaagt tattgtcgtt tgaattggct 180  
 ccgagcttca acattcaatt tcgagcgtct cgatatgtta cgagactcaa tcagacatcc 240  
 gagtaaaaag ctattgtcgt ttgaatttgc tcagagattc aacattgaat ttcgagggtc 300  
 tcgatatctt acgggactca atcagacatc cgagtgaata gttattgtcg tttgaattgg 360  
 ctcagagctt caacatttaa tttcgagggt ctcgatatat tacgggactc aatcagacat 420  
 ccgagtaaaa agttattggc gtttgaattg gctc 454

<210> 7336

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7336

agctataaca tcagaccact tccagggtgt tgtaactact tacatggatn tgatggggcc 60  
 tatgcaagnn gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120  
 cagatttacc tgggtaaaact ttatcagaga gaaatcataa acctttgaag tattcaaaga 180

gttgagtcta agacttcaaa gagagaaaga ctgtgtcatc aatagaatca ggagtgacca 240  
 tggcagagaa tatgaaaaca gcagggttcac tgaattctgc acatctgaag gcatcactca 300  
 tgagttctct gcagccatta caccacaaca gaatgggata gttgagagga aaaacaggac 360  
 cttgcaagag gctgctcggg tcatgcttca tgccaaagaa cttccctata atctctgggc 420  
 tg 422

<210> 7337  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7337

agcttctatt acctatctac agttttttct atagnctat tattacaaga ccaactctta 60  
 aaattaaata ttatgatttg cctcactact cgccccattt tcccaaatac tttcaggggg 120  
 tgcattccat gttggacggc tgtccaggaa aaacatggga acctaacgag aagaggataa 180  
 acaagcttgt cttcattgga aggaatttgg atgaaactgc ccttaaaaaa ggcttcaaag 240  
 gttgtttagt atagcattaa agatctgtta ccagtcaagt tcccaagcag cagcccttgt 300  
 gtgtcttatt ttataaattc cagcaagcaa gtatatgtac atggtagcac caatcgaata 360  
 aacgttggtt gttcgtgcta tatactgaat atacagactc 400

<210> 7338  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7338

agctagttgg ttnatgaaac tngatctgct gtatggttat caccaaacc acatgcattc 60  
 ttcggacatt gctaaaacga ctttcgcac gcatcacggt cactatgaat tcaaggttat 120  
 gcccttcggg ctatgcaatg ctccctccac ttttcaggcg acgatgaaca tgcttttcgg 180  
 gccattcctt cgccggtttc tcattatctt ctttgatgac attttaatct atagcatcac 240  
 ctttaatgat catgttcttc atttacaaca agcttttcag gttctgttgg acaatcaatt 300  
 cgtcctgaag ttgtccaaat gtaccttgc tcagccacag gtggagtacc tcggccatgt 360

ggtctcctag cgaggagtg

379

<210> 7339

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7339

ntattcaaga caagaatcca agaaagtcaa gatatatgat ctagtttgat ctcttagaat 60

ctttaggaag aagtttccaa attgaaacaa acaaaagggtt tgaccaagga attctatcct 120

ttcaaattga gatttgctct ctggtaatcg attaccagca gtttgaaaat gttttaattc 180

aaatttttaa aacctgtaat cgattacata agtcttgtaa ttgattacca gaggggattt 240

tcagaaaata atttccaaga gacatatcta ttcaaagtgt ttatgaacgg ccattcaaatt 300

gttttaaaga gagttttcat tgcccaaaca gctttatcct ctcgaaagat caagagtttt 360

tctgaactga aatgtcttat cctctcaaaa agattccttg gtcaaccact tgcttattca 420

ataaggaatt nttgattgat cttcattnta caat 454

<210> 7340

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7340

agctacttag tctcagatta tgcnaactgt tttttagctt acctcatgca ctctctaat 60

gactatggca tcatttctgg cgctaaactg ctgggagttg gaagccatct tctcaattaa 120

atttctggct tcagcaggag tcatgtctcc aagggtctta cactggcag catctatcat 180

acttctctcc atattactga gtccttcata aaaatattgg agaagaagct gtcctgaaat 240

cttatgggga gggcaactgg cacatagttt tttaaactct tcccagtact catacaggct 300

ctctccactg agttgtctaa tacctgagat atccttcttg atgggtgtgg tcttagaagc 360

aaggaatttt ttttctaaga atactctc 388

<210> 7341

<211> 442

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7341

gttgagccaa ttcaaacgac aataactggt tactcggagg ttgtattgag tcccgtaata 60  
tatcgagacc gtcgaaattg aatggttgaag ctctaagcca attcaaacga caataacgtt 120  
ttactcggat gtctgattga gtcccgtcat ataccgagac gtcgaaatn gaatgttgaa 180  
tctctgagcc aattcaaaca acaataaact tttactcgga tgtctgattg agtcccgcaa 240  
tatatcgaga ccctcgaaat tgaatgttga agctctgagc caattcaaac gacaataact 300  
ttttactcgg atgtctgatt gagtcccgtata atatatcgag acgctcgaaa ttgaatgttg 360  
aacctctgag ccaattcaaa cgacaataac tgtntactcg gatgtctgat tgagtcccga 420  
catatatcga gacgctcgaa at 442

<210> 7342  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 7342

agcttaaaca ttcaatttcg agcctctctt tatatcacgt ttattcaatt aaacatccga 60  
gaaaaaagtt attgtcggtt caatttgctc agaggctcaa cattcaattt cgagcgtctc 120  
gatatattac gggactcaat cagacatccg aggaaaatgt tattgtcggt tgaattggct 180  
cagaggttca acattcaatt tcgagcgtct cgatatgtta cgggactcaa tcatacatcc 240  
gagtaaaaag ttattatcgt ttgaattggc tcagatcttc aacattgaaa ttcgaacgtc 300  
tcgatatatg acgggactca atcagacatt cgagtaaaac gttattgtcg tttgaattgg 360  
ctcagagcgt caacattc 378

<210> 7343  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7343

tgatgcaaca ttcggagagg ttaatgaaac aacgagaata ngctctccat gagaggttgg 60



atcaaatgga gaatagagat cataatgaag aagaaaggag gagaagaggg aatgatggtg 120  
 ttcctagaca aaaccgaatt gatggtatta aactcaacat tcctccattt aaaggaaaga 180  
 atgatccgga ggctacttg gagtgggaga tgaaaataga gcatgttttc tcatgcaaca 240  
 actatgagga ggaccagaag gtgaagcttg ccgccacgga gttttccgac tatgctcttg 300  
 tgtggtggaa caagctacaa aaggagagag caaganatga agagccaatg tgatgtgaat 360  
 cttacgngc gcggatcgct tgatacaggc tgtagaagtt ttggatgacg ccactt 416

<210> 7344  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 7344

agctatcact ctaatgtcag attcaggaac taattatata ttgacactcg aaattgaaca 60  
 cggaagctct ggtccaaatc atatggccta aacttttgac atggctgtac gattgagggc 120  
 catgatatat cgagatgcta gaaattgaga aatggaagtt ctcgaaaaat tcaaatggtc 180  
 ataagttttc actcgaatgt cagatttagg aacaaaatat acagagacgc tcgaaattga 240  
 acaacggatg ctctctagaa atttaaattg taaaaaattt tcacacgtat gttagattca 300  
 ggcacataat atatcgagac gttcgaaata gaacaccgaa gctctgggtcc aattcaaacg 360  
 tccataactt ttgtcatggg tgtatgattg acgcccata tgtatcgaga tgctagaaat 420  
 tgaataacgg a 431

<210> 7345  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7345

agctcgcgnc catnalcatt tattagagtt acctccccta tgtcaacaan cntgctggag 60  
 anatggatgc ccatcttcac cataccgaaa tccctttttt gatatgatga aaaaaaacct 120  
 ctatgaggag taacatggaa ggatgctcta tagtctatta tccatataca atcattagat 180  
 gcaatattta aataattttc attattgata agaaaaacat tctcatcatc tgatgccacg 240

gcaatagtgg cttcacctta gtctttttca ttgagtcaat ttgattagca tggacagttc 300  
cagccttctg atctctcttc aagaatttgc actcagactt cttatggtct taactttcgc 360  
agtagcagca acccagcct tgggatg 387

<210> 7346  
<211> 385  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7346

agtttaatta tctattgtta tagctntggt tcttgcaggc gctagatact aaaatcaatt 60  
gacaaagaga actaagacgg gctataggct ttgatacaga ttttatctta taaccaatta 120  
gtattaagta aagttgtcca acagatatat aagttgcacc ccaaaaactg agataggtga 180  
tgtgggactt tctaacggct agaacacatt gtcagttttc taacgagtga aggtcgcaac 240  
aaaatggctc gatcgaaaga ttttgagaat actccagatc ttttatgagt agaaaactag 300  
cttataatct ctaacagaaa cactggcgaa ttaagtttgg cgtactcgat agataacaga 360  
tagattatga tcagaacaca taact 385

<210> 7347  
<211> 465  
<212> DNA  
<213> Glycine max  
<400> 7347

gacacttaaa actcagcttc cagaatcaag atcaagattc aagactcaag attcaataat 60  
caagagaaga cttaatcaag ataagtatga aaagggtttt taaaaaattg agtagcacat 120  
ggatttttct caaaacatgt ttatcaaaga gtttttactc tctggtaatc gattactaga 180  
ttgttctaata cgattaccag tagcaaaatg tttttgaaaa agttttcaac tgaatttaca 240  
acgttccaat tgatttcaaa aagctcttat atgttttggg aatcgattac cactgtcttt 300  
gaacgttgaa attcaaattc aaatgtgaag agtcacatcc tttcgcataa aagctttgtg 360  
taattgatta cactgatttg gtaatcgatt accagtgatt gtttctgaat aaatgaaaag 420  
atgtaactct ttcaatagtt ttgatcttt caaattgggt taatt 465

<210> 7348  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7348

tgcactcaaa nccggacattc gagtgaaaag atatgaccat ttgaatttct caagagcttc 60  
 tgttgctgaa tttctagcat gtcgatatat tatgtccccg aatcggacat tcgagagaaa 120  
 agttgtgaca atttgaattt ctatagagct ctggttggtc aatatcaagt gtctcgatat 180  
 attatgcgcc agaatatgac attcgagtga aa 212

<210> 7349  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7349

gcatgcgaag tgggtggaat tcctagagca ttttctttat gttatcaaac ataaaaaggg 60  
 aaaatgtaat attgtagccg atgctctttc tcggcgctcat gcattacttt ctatgcttga 120  
 aacaaaattg attggtcttg aatgtttgaa aagcatgtat gaaaatgatg aaacttttgg 180  
 agaaaatttt aaaaattgtg aaaaattttc agaaaatggt ttcttttagac atgaaggctt 240  
 tcttttcaaa gaaaacaaat tgtgtgtgcc taaatgttct actagaaatt tgcttgtttg 300  
 tgaagcacat gaaggagggt taatggggca ttttggggtc caaaagactc tagaaacatt 360  
 acaagaacat ntttattggc ctcatatgan aaaggatgtg cacgaaattt gtgaaca 417

<210> 7350  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7350

ngagaactct ttccatgcag aagttagaat actaagcaat attcctcata ccttcattgt 60  
 gagattgatg tggtgtatct ctaatgagga ttctatgctc tttgtgtatg agtatctgga 120  
 aaatcacaac ctagataagt gactgcacca gaagcttaag tcaggttcag taagtaaagt 180

ggtccttgat tagccaaaga gggtgaaaat aaccattgga attgctcaag gtttaagcta 240  
 tatgcaccat gattgttcac catttgtggt tcatagagat ataaaaacaa gcaacatcct 300  
 tctagatact caattcaatg caaaagttgt tgattttgga cttgctaaga tgtaaatcaa 360  
 gccaaaggaa tctttttgtt tcttgactaa caaatatatt gctcttgctt agctatatatt 420  
 tgtgtgtgcc ttatgagtaa actatnnttt tagtc 455

<210> 7351  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 7351

ggctgcaagc tacgtccacc tatttgcaga aatgaaagaa ggggtgtaata aataacattt 60  
 ggctggaagg aaacaagaga caaataccct ccccgcccaa aaaaaataaa agaaaagaag 120  
 ttacctttcc ccatatatat ccccttgtat tctttctgcc ctcttcttgg taggaaccat 180  
 cctcattgac ccaaaaatgt gggttgccag cacactgaac tcttgccaac tgcacacaac 240  
 aaccaaaaca ggattctttc aaaaattctg tttcacaata aacaagatat ggttattaag 300  
 agagagcctc tcaatatgaa ttgtcgacct gcaacatacg aagctccact ttagttattt 360  
 cccgaccatt gatgaaaacc tgagtgggtc cattgctagc atccgggttg at 412

<210> 7352  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7352

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 ttcatccttt gcccaaaatc ttgcaggaaa ctctctccat cctcatctcc atctccatac 180  
 cttttccgaa taaccagat gaaatcatga ccagaatttt caagcccggtg agcgatttca 240  
 acaagctgag catgaggag cctgattcgg cttccaaaac ttacataaag aactgactca 300  
 ttntgcttag agttaagcca gtttagccac tcttattctt gcacaagctc ctccttgtgt 360  
 cccctattgg ccttttcttc atcgactga ttaattaacc caagctgaca ccggtcctac 420

actccaacac ttgacccccct ttgtgctctg ataa

454

<210> 7353

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7353

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actgcagcta acttagcaaa tattcagtaa ctttgggtcat acctttaact agttgcagga 120

agaaacaccc ttattagtga gttctttgta accttttttc tacaggtagg gcatttagcc 180

tgtgcagata tagcagccct gatgcaattc ttgcaaaaaa tatgaccaca ctttggtgac 240

atttcttcaa ccaaagggga catacatatt gggcaattaa aaacaggctc cttatgagct 300

tcaggctcct tgggaggttc aggtgtcttc ttagcatttt cactctgcaa aaggaaaaag 360

tgtcagcaat ttgaactcat acaaagtctt gcaatcaact gcaagtctnt atatg 415

<210> 7354

<211> 347

<212> DNA

<213> Glycine max

<400> 7354

agcttaagct ctttcaactg cacaaggctc ttaatatttg aagagtatcc ttgtggaacc 60

ttcacccgat gaagacactg acaaaaactt atcttctcct ttttggacaa agtatgacaa 120

gttgggggca agtaaatattt ctttccatca gaccttggat gccactgtga tcggatccac 180

atctctgcta gatattgacg agtattcaag ccataccttg tcttgcccta aatgttaaag 240

agcgtcccaa tcacactgtc acatacatat ttctcgacat gcataacatc aatacaatgt 300

ctaacatcta gatcagacca ctacggaaga tcaaagaaag ttgacct 347

<210> 7355

<211> 569

<212> DNA

<213> Glycine max

<400> 7355

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cctgggtcaa gcacgacttt ctttctgctt ttgttggtt gccttgcata gctcgcat 120  
ttcttttcaa tttagcctt cacttgctca tgcagcttct tcacatactc agcttttagcc 180  
tgtgcgtcct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240  
aaaggattaa atccatacac tatctcaa at ggtgaacaat ttttgtgct atggatgata 300  
cgaaatcaga gtgtggtaac ggaagcaa acaccaataa gaaagtacta ggtaccaccc 360  
ttattagtcg aattccttta agtatttttg gtatttgtgt gtttgggttt ttacgaaaat 420  
cagcaaggaa aaataagcga tattaaacta caccaatagc ttaatacgag attagcactc 480  
accaccaatt gagctaactg gactattttc aagacgacgc tggcaaataa tcgggcgaaa 540  
aatgtaacac aatttcta at tggactgaa 569

<210> 7356  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 7356

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acattcaagg cactttgaac tatggaatca aatatgacaa gaaggtggaa gcaaatgtaa 120  
ttggcttttg tgacagtgat tgggcaagct gtatggatga aatataaagt actttcggat 180  
atgttttctc actgggttta ggagaat ttt catggtgctc aaagaaacaa caaacggtg 240  
cccaatcttt tgcaaaagct gaatatattt cagctggctt agctacccaa caagcaatat 300  
ggttgaagag aatatttgaa gactttggtg aaaagcaagg gacaatgact atccattgtg 360  
ataacaaatt tgctattgct atcac 385

<210> 7357  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 7357

agcttttgac ggactatacc aagctctatg aaccagggac ggagaaagat ctatatatag 60  
gcttgctaag ggtagagaga ggaagactag agatttggat caagtaaagt gtgttaagga 120

tgaagaaggc aaagtcttag tgcataaaaa agatatcaag gaaaggtgga aggcgtatct 180  
ccacaactta tttaatgatg gatattgata tgactctagc agtctagaca caagagaaga 240  
ggaccggaac tataagtatt atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300  
aagaatgagt aatggtaagg cgggtggggcc agacaacata cctattgaag tgtggaaaac 360  
tcttgagat agaggtcttg agtggctcac cgaactcttt aacgaaatta tg 412

<210> 7358  
<211> 128  
<212> DNA  
<213> Glycine max

<400> 7358

tgcttttccc aaagagaggc accactgggt ttatcacctg atcgccaacc ggatgcccc 60  
aagcgtcttt gacttttttg aagcgtcga tatccataat aacgacgcac taaagcggat 120  
tctgggct 128

<210> 7359  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 7359

atatactgta atcgattacc agagcttatt ttcagaaaat attctcaaca atcacatctt 60  
tttgtgtggt tcttgaatgg ctatcaaagg cctatatata tatgtgtgac ttgcgacacg 120  
aatttgctaa gagtttttaa gaacaaaaag gtcttatact cttacaaga aaaattgttt 180  
tactctctta caaatctctt ggccaaaaca cttgtgattc aataaggaat tatctgagtg 240  
ctcaaaatgt tcaatctatc tctgtcaaga gagatatctt cttttctact tcttcattct 300  
gaaaagggat taagagaccg agggctctct gttgtgaaag aattctttac aca 353

<210> 7360  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7360

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aaccactcca gtgtagttt tgcctaaccc gagagaaccc tttagaggtgt attgtgatgc 120  
atcaaagatg ggattaggag gagtgttgat gcaaaatggc taagtagtgg cctatgcttc 180  
tagacaactc aagactcatg agaggaatta catcactcat gacctggagt tagctactgt 240  
agtttttgcc ctttaagatgt ggaggcatta cctgtttcgc tccaagtttg aggtgttttag 300  
tgatcataag agccttaagt acttgtttag tcagaaagag ttgaacatgt gtaaaaggag 360  
atggttagag ttttttaaag attatgattt tgagcttagc taccatcccg gcaaagccaa 420  
tgtagtggct gacgccttga gtangaaatc cctacatata tcggcattga t 471

<210> 7361  
<211> 521  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7361

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atccccaca aggaaacttg caaacaagtt tttctcaata gtttccctct caccatctca 120  
cacaatcctt ctaataacaa tagtaaacaa gaaaagtgtc aatggatcac cttgtcttaa 180  
aattttttga gcgaaaaatt cataagtatt tcagcaacat caaatggtag ttgatgtcaa 240  
acatccctta atccaatgaa tccacttctc atcaaaaccc aacctcttca tatagaacaa 300  
gaaattccaa ttaatcaa ataggtttt tcataatcta acttaaagat aagacttttt 360  
cttttctctt ttttctttat caatggtagt attcaccgcc aacacactat gaagtaggaa 420  
ttttcctccc aagaaagcac ttgcttatg atcaatcaca cttaanagta ctttcttcaa 480  
cctattagct aacaccttac aaaatatatt atacatacat c 521

<210> 7362  
<211> 456  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7362

ttggaaccca gatgtccat cgactagcct gtttatatttg ggcagaaggt atgcgtcttt 60  
aaagcatgcc ttgttcagat tagtgtaatt ggtgcacatt tgtcaattgt tgttgaacct 120



tttgaccatg atgatgttgg cgagccacgt ggaaaacctg acttctctaa tgaagtttgc 180  
attgaggagt ttatccactt cttctttgac agctttacgc cattcttctc ccattcttct 240  
tttattctgt gatattgttt tggcctagga acatataaca agttttagt agattatgct 300  
aggatggatt cctggcatgt tagacggctg ccaagtaaat aaattcccg tttcatgtag 360  
cacgtcggca atgcgttggg gctcatgact agtgaggctg ctactaagcc acatgcacta 420  
cccanngtta ggttcgagtt gcaacttgac atgctc 456

<210> 7363  
<211> 498  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7363

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tctggaggta tttgaatcat catgtacacc gtaaagctgt gtgctagttt tagtattttt 120  
caaccagcct cttaaact tggttttgat tttgttcacc caactcttgc taagattcag 180  
agattccttg gatgataagt ctaaggctaa tctagtgcaa attaaaggac gattttcagt 240  
gacatcagaa aatttagatc tgggtgaagg atgcttttta gttttttctt attaatacaa 300  
tgggtccctat cgacaacttc aactgacttc atcatatgga ataggatatt cctgtaagtt 360  
cagtttcacg ccgatcttca caggttgggt gatgatctaa ttgattattg gctatatatn 420  
tatgttttct tcttatcacc tcatttgatg gtctctttcc ttttacgtta aatatatgga 480  
tcaccaatga gggaaatc 498

<210> 7364  
<211> 451  
<212> DNA  
<213> Glycine max  
<400> 7364

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taaagatgga gaaaatggat ccatggatgc ctttctagtg caactacatc aattttgatc 120  
aaaggccaca ctactagaga atttgtgcct gaaaggggac tgatgcaagg agatcccctt 180

gcacctttcc tatttaatat aacagctgat ggactcactg gggatgatgaa gacagctgtc 240  
 tccaaaaacc ttttttagcat ctataaagtg gggaggcaaa aggaggagat taacatcttg 300  
 aagtatgcac atgatacact gttttttgga actgcgacta cagctaattgt tagagacatg 360  
 aaatctatcc tcataatttt cgagatgggtt tcaggactca agattaacta tgctaaaagc 420  
 caaattgagt gcttgcgtaa atctttggac t 451

<210> 7365  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<400> 7365

agcttcgtaa tttgaggagc atgaatgggt gctttacaca aacaatgcat gtgaagggtgc 60  
 atgtgccatt ttgaattcta taacaatatt acccatttga tgatgatcct tcccatcttt 120  
 gaatttccga ccacatgcac ttatcttaat tagtcaataa attattttaa taacatctga 180  
 caattagcaa attcgaccat tagtaatcta agatcacctc ttacatttct atgaacttct 240  
 tttagaatgg gcacgaggta atcatgttta aatcataaaa ttattatttg taagaaaaaa 300  
 tcttttcaaa tatttaacac atttatatat agaatttgaa gactaaataa ttgatcagat 360  
 gaaataatct cacatcaatt aatttatgca ctcatgattt acatttccat ggacttaact 420  
 gtgaagttct aattaaaaca actacataat attttaaaaa gatgttagaa aatttataaa 480  
 agtaaataaa tattttctta aataaactga atgaaatg 518

<210> 7366  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 7366

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 aacaaacaca gaatcctttc cattcttggt tttgggcagc cccaaaacaa agtccataga 120  
 tatgtcagtc caaggatatt taggaacagg caaaggagta tacaatccat gaggtttaac 180  
 cttagattta gcttggtttac acacaatgca atgaccacaa aacttatgca catcacgcct 240  
 catatgaggc caaaagaaat gatcttgcag aatttccagg gtcttttgaa ccccaaagtg 300

tcccatcaac cccccctat tgtg

324

<210> 7367  
<211> 473  
<212> DNA  
<213> Glycine max

<400> 7367

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aatcaagata agtatgaaaa gggttttttca aaaactgagt agcacatgga tttttttctca 120  
aaacatgttt accaaagagt ttttactctc tagtaatcgc ttaccagatt attgtaatcg 180  
attaccagta gcaaaatgga tttgaaaaag ttttcaaagt aatttacaac attccaattg 240  
atttcaaaaa aggtgtaatc gattacaatg ttttggtaat cgattaccag tgcctttgaa 300  
cgttgaaatt caaattcaaa tgtgaagagt cacatccttt cacataaaaag ctttgtgtaa 360  
tcgattacac tgatttggtg atcgattacc agtgattggt tctgaataaa ttaaaagatg 420  
taactcttca aaaagttttt gactttctca aattgatttt aaagttttct aaa 473

<210> 7368  
<211> 463  
<212> DNA  
<213> Glycine max

<400> 7368

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tatattcacc aggaaaacat tggtgtggaa ggaaattgta atgctgtgat tcaaaaaatc 120  
cttccacca agcataaaga ccctgggagt gtaaccattc cttgtttaat tggagaagtc 180  
attgtgggaa aggttcttat tgatttggga gccaatatta acttaatgcc actctccatg 240  
tgcagaaggt tgggagagtt ggagatcatg ccactatga tgactttaca actcgctgac 300  
cgctccatta ccagaccata tggagtaatt gaagatgtgc tggtcagagt aaaacatttt 360  
atcttcatga cagactttat ggtaatggat atctgtgaag ataataacat tcctataata 420  
ttagaaaggc gattcatggt aattgcgagc tgcatagttg ata 463

<210> 7369  
<211> 489  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7369

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gggagtaaaa tatgttttct tgttttatat gtagatgata ttttacttgc agccaacgat 180  
cggggtttgc tacatgaggt gaaacaattt ccctctaaga attttgacat gaaggatatg 240  
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tcacccagtg ttgctcccat tgtgaagggt gatagggtta atttgaatca ctgtccaaag 420  
aatgactttg agagggaaca aatgaanaac attctttatg cttcagttgt tggaagcctc 480  
atgtatgct 489

<210> 7370

<211> 554

<212> DNA

<213> Glycine max

<400> 7370

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cttccccaaa cattcccaac ttgcaacaac tacttagaag agagttatga ataatttccg 120  
aggagagat tcccccttcc ctcatatgat ggtacaaact gaaagctaca ttcaagcgtc 180  
ccactttgca cagtccatta ataagcttgc tgtaagtgtt aagattaggc acacagccac 240  
attcttccat tttctcaaag agcacagttg tgattccaaa atcaatttta ctccatatat 300  
ctgtattatc aacagagata tttgttaaac ttacatcaag ccccatggga ttgcttcctt 360  
ccttcttatg tttttcaatc actagatgct tcattatgat ggagtatgtt agataagaag 420  
gctcatcacc agtaccaaac atgcgcctga gaacaccaca tgcactatca agtagtccca 480  
tacatccata tgctttaatt aataaattat atataaagga atcgagcaat acgccttcat 540  
ttttaatctt gaga 554

<210> 7371

<211> 479

<212> DNA  
<213> Glycine max

<400> 7371

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gaatttcaat tttcatatat agcaaagagc tttttttcaa cttaaataaa ttattcctca 180  
aaaaggacac gtataataaa aaaatacacg aattcgtagt aatatttgaa ataaaaacat 240  
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ctcgtggcctt ttattctcta tcattttatt tctaataataa ctgtattttt taccctactt 420  
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<210> 7372  
<211> 500  
<212> DNA  
<213> Glycine max

<400> 7372

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accgtgagct cattaaaagc cctcttggtt tttatcactt gctcaaaggg acaatccaaa 420  
cacaacaggt gggtcataat ctccaagttg atccaaccaa tagagtggga tgtgactctc 480  
aagagccgat tcaaatgaat 500

<210> 7373  
<211> 508  
<212> DNA  
<213> Glycine max

<400> 7373

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 gcaagatatt gagagccaac ccatcatagt gaaccgtgac ggctctgaaa ataagtacga 180  
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 gaaggaagct gcaatgctca acaagcaaata ggatgctttg atagctttca ggatcaaggt 360  
 tgagaagcca agtttggtgt tatttgatca ttctgtggag atgactctgc ttgcttctga 420  
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 taattaattt tcaccttcac ctcatttt 508

<210> 7374  
 <211> 133  
 <212> DNA  
 <213> Glycine max

<400> 7374

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 tcattccaaa ttgtgcatt ctgcgtgcag ttggccagaa aatggccgcg actcccgcg 120  
 ctagtgcctc cct 133

<210> 7375  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7375

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 agaccaaatt ctccattcc catgtagacc agcagaatct gtctgaatca tgattttgaa 180  
 cttgcaatct ccagttgaaa gatctttgtc agtgacaaca gaaagaccgg ggaatttgca 240  
 tgcaactgtc atctggtcat tcaattggaa gtaactattg aatgcataag aaagattacc 300  
 acgagcatct aaaccaccac atgaagtttg atatccaaga cttgtgcaat ctgcattttg 360

acaagcataa gacacactcg gtgccacttg atcactattg agggttgctg aggttttcaa 420  
aatgcaccac tttnttngta gatatgccac ccagtagca gctactaag 469

<210> 7376  
<211> 483  
<212> DNA  
<213> Glycine max  
  
<400> 7376

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ctactcgggt gcagaacagt tggagagtct gcattgacta taggaggctg aaccaagtta 180  
ccaaaaagga ccattttccc ctgccattca ttgaccagat gcttgagcgc ctggcaggta 240  
aatctcacta ctgttttctt gatagttttt ctggttatat gcaaattact attgctcctg 300  
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tga 483

<210> 7377  
<211> 480  
<212> DNA  
<213> Glycine max  
  
<400> 7377

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tctggatctc gaattgaaaa tttgccagct gagttaaaga acttgataa actacaatta 180  
ctagacatca gcaattgttc agtagtcaag aggattccgc ctcagcttat gtcaagggtg 240  
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agaaaccaat gtcaaatctt atttatttct gaactaaac atttgcacat attgcaagtg 360  
gtggacttaa gcattccatg tgctgaagtt tttcccaagg aattgttctt tgcaacttat 420  
gtgattacaa gattgagaat gggaacttct aaatgctttc acctggagat ttcagaatgc 480

<210> 7378  
 <211> 571  
 <212> DNA  
 <213> Glycine max

<400> 7378

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acataccttc ttcaagattt tcgcattcca ttcactcagc cagctaacct attttgtgat 240
aatcaatctg ctattcaaat ttcttccaat cagggttttc ataagcgac aaaacatatc 300
gaattagatt gctatatcga tcgcgaaaaa tcaactaaat gccttctcaa gcttcttcca 360
gatagatcct ccatgcagct tgctgatatt ttaccaagc ctttatctcc tactcaattc 420
aagacactaa tctccaagct gggaatgata aacatctatt ccagcttga gggggggctc 480
ttaccactat gagagaattc gcgttgctgc tactgcataa gtgccgctac tgcagagttg 540
ctgctattgc atttcattac atttcattta c 571

```

<210> 7379  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 7379

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tagcttatac gcaaaacaag agaggtgtta tttttaaaaa aaaaacgcaa acaaaatagg 60
tcgcgtatga tataatttaa aatgtaagtc caacatcggg tttcaataaa aataaaaaaa 120
aaatcgatgt taacaaaatg atgttaactt taacatcgat tttcttcaag aaaccgatgt 180
taacttatca tacgttaaca tcgattttat gaaaatccga tgttaacgga tacatattat 240
ttacaattat gccaccgtgt ttatcttaac atcgatttta tcaaaaaccg atgttaatct 300
gacgatgtta aatctgtttt ttgtagtagt gtataaataa tacttggaatt attaacatgt 360
agagactagt gtaaaacctt ctttgggttg agctactaat ggcttgagac aataatattt 420
atatctttga gaaaaataga aaaacttgat gggtttattaa caatttaatg taatcctcag 480
tgtttgagaa aaattattat aaa 503

```



<210> 7380  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 7380

ttggaattca atgtgaaaag ttatgactat ttttaattttc cgagagcttc cgctgggtcat 60  
 tttcgagcgt ctctatatgt gatgcgcctt aatctaacat ccgtgcgaaa agttatgacc 120  
 atttgaattt ctcaagagct tccgttggtt aattttgagc atctcgatat gtgattttccc 180  
 tgaatcgtag atccgtgtga aaagtattga ccatttgaat ttctcaagag cttccgttgt 240  
 tcaatttcga gcctctcgaa atattatgcg cccgaatcgg acatccgtgt gaaaagttat 300  
 gaccatttga atttctcgag agtttccgat gtttaatttc aagcgtatcg atatattata 360  
 agcctcaacc ggacatccgc gtgaaaagtt atgaccattt gaattt 406

<210> 7381  
 <211> 608  
 <212> DNA  
 <213> Glycine max  
 <400> 7381

agctttattc aagacaaaga aattttttat attcaagatg gatgatcaag actgtctata 60  
 gagtcttata aagggtatat taaataggaa gggaattcca attgaagtag caaaagggtt 120  
 ggccaagaat ttttaagttaa aaagtctttt acaagaaatt tactctctgg taatcgatta 180  
 ccagtggcca aaactgattt acaaacagct attaaaattt gaattcaaaa tttgccctgt 240  
 gtaatcgatt acacatatat ggtaatcgat taccagtagt ttctgaatgt ttttaattcaa 300  
 atttttaaagc ttgaaatcga tttcacatat actgtaatcg attaccatag cagaatttca 360  
 gaaaatatta tcaatagtca catctttcta tgtgggttctt gaatgggcta ttcaaagcct 420  
 atatatatgt gactcaagac acaattttct taaaattctt aaaacaaaaa ggcttacctt 480  
 ttaaaagtaa aataatttta ttctcttaca aattcttggg caaatacttt gggattcaat 540  
 aagaaatatt taaaatctta aatgggttaa ttatcttttt caaaaaaatt catttttttt 600  
 ttttttat 608

<210> 7382

<211> 521  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7382

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agcttccatc actgctgttg ttgttgctga gggctggacc atctgaggtt agggtgattc 60
ttctatccag ggttgatatct gttgctggag aggtcataat tgttctgctg tggttgattt 120
tgcttctgag gttgaggagg tctattgtaa atatttgcag cataagcttc aggctgctca 180
atcgctccag gttgctgcat ggaagggcaa aggtctgtat ggtggtcagc agaggagcac 240
aaaccacaaa cccttgtaac aggtacaaat ttctgattca aggccagctg ggttaccaag 300
ttaaccaatg catccagttt gccttcaagc ttcttagtct cagatgatgc agctgagttt 360
gtagctacct catgcactcc tctaatact atggcatcat ttctggcact aaactgctga 420
gaggtggaag ccattcttctc aataaatttc tgcttcagca ngagtcatgt cttcaagggc 480
tcaccactgg cagcatctat tatacttctc tccatattac t 521
```

<210> 7383  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <400> 7383

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agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcatc ttctttggag 180
gatagacatg tggaggagta gctgatttct tggggtgtcc atatgtaaca attgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagggtta cattgaatcc ttcacacac agctgactga tgetgatcaa gtttgcagtc 360
agtcccttca ccaacagtac tttgtccaga ctaggaagtc catcatgaac taccctttcc 420
atttcaatga tcttttc 437
```

<210> 7384  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 7384

tatccccgtt ttttctttgt atcaacgtgc tgtcaatgtg ggctctccgc ataaattttg 60  
ttgctgtgct gcttcgttac tctaatacta tttctttttt ccttttaata atgaacaaga 120  
gtatcactat ttttcttttt cgtacaaatt tggtagtatt tgttatgtca ttattattat 180  
tagttttaat ttcatttgtt atctataaat cctgttcctt ttaattattc tttttcaacg 240  
aaaaacaaac ttgggttagag tgagtttctt cgtgcattga aattgaagtt acattgcgtg 300  
aatgttttagc agatttcgtc gtttagagag agcaagtcag atgatcggcg tttctatata 360  
tttacagcaa cgaagaccct ccatctgaga actgattcaa ggaaagatcg cgtggcgtgg 420  
atacaagcct ggttttaaca cgtgccctga tcctcttcac cactcatg 468

<210> 7385

<211> 511

<212> DNA

<213> Glycine max

<400> 7385

agctttacat tactcctcat gttcttacc atgtctaata aggttcgatt tcttcgttct 60  
gccacaccat tctgatccgg agaaccaggc atagtgtatt gggcaacaat cccatgttct 120  
tgaagaaatt tcgcaaata acttggggct tgtccatcct ctgtgtatct accatgggtac 180  
tccccacctc tatctgatct cacgatctta atttgttttc cacattgttt ctcaacttca 240  
gccttaaaaa ctttaaaggc atctaaagct tcattcttat aatgaagtaa gtagcgatac 300  
atatatcgtg aataatcatc tataaaggct atgaagtatt tctgactatt tgcacccatg 360  
tctggacaac atatgtctgt atgtatgatt tctaataaat tagaactcct ctctgcccc 420  
ttttaagact gtttagtttg ttacccttaa tgcattctac acaagtttca aaatcagcgg 480  
aaatccaagg actaagtact tcttctttac t 511

<210> 7386

<211> 447

<212> DNA

<213> Glycine max

<400> 7386

ttaaatagaa aagaatatgt aaatattgat ttaaagcaca tgttgtttgc tttgctgatt 60



caggagagcc attgagttgc tctcaggaaa ggaaggaatc atatctcaaa tggttgagac 300  
 caaaccagac aagctctaca gcttgacctt ctcattgggt catgctgatg acaagtgcaa 360  
 ggagcctctt gctgttatgg cctttgctgg tgaccaggct cagaacattc actacactcc 420  
 caatttcaat tccaccttcc aaactgctaa cgtcaatttc actgccaagg ctgagaggac 480  
 tagaattgca ttctatagca tatactacaa caccagaagt gatgatatga gttctc 536

<210> 7389  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7389

tcatgatgaa tcaagattga ttcaaagagt tttgatgatt actaagatga tgacaaaaag 60  
 ctcaagagtc aagaacactt catgataaca aagatgatga tctcaagaat caaaggatga 120  
 gttcaagatt gaatcaagaa cacttcaagg ttcaaaagga aatttgattt caagaatcaa 180  
 gtttcaagat tcaagaatca agagaagact caatcaagat aagtattaaa aaaaattttc 240  
 aaaaactgag tagcacatga atttttctca aaaacctttt accaaagagt ttttactctc 300  
 tgtaaatcga ttaccagatt attgttatcg attaccagta gcaaatgat tttcaaaaag 360  
 ctttcaactg aatttacaac gttccaattg atttcaaaat gttgtaattg attacactaa 420  
 tttgtaatc gattaccagt gtgtttgaac attgaaattc anattcaaat gtgaagt 477

<210> 7390  
 <211> 535  
 <212> DNA  
 <213> Glycine max

<400> 7390

agcttgcttc tacagagtga aatatgattt tagatgaagg aaaacaggaa aaagaaaaac 60  
 aaaaagaaaa agagaagggt gatgaggaga aaaagaagag caagagtgag gttttaagag 120  
 agaaaaagaa cgagattact tcagctgaag gaaaggaagt accatatcca ttggtacctt 180  
 ccaagaagga taaagagcga cacttagcca gatttcttga catcttcaag aagctggaga 240  
 tcactttgcc ttttgagaaa gttctccaat agatgtcact ctatgcaaaa tttttaaaag 300

acatgctaac aaagaagaac cagtatatcc acaatgaaac aatagttgtg gaaggaaatt 360  
 gtagtgctgt cattcaacgc atccttccct cgaagcacia agatcctgga agtgtcacta 420  
 taccgttttc cattggcgag gttgttgtgg gtaaagctct cataaacttg ggagctagta 480  
 tcaaattaat gcgtctctcc atgtgccggc gacttggaga gatagagata atgcc 535

<210> 7391  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 7391

tattctatga tattgggaat aatgtctggt aatttataaa tgttggcagt ttaacataaa 60  
 taatgataag gatgggctct tttgtttatt aattttatgt acaccctgcc gttctctttt 120  
 tccatttaaa acaacaccac cttttctagt tattaattaa atatttctca acttgcaagc 180  
 actaaatcgt ttgatttccc ctctttgatc ttgtgtgcgt gtgtgtgttt tgtgccatgt 240  
 acttttgcta tttctgggtc acaactgata tagtctctta agagaatcct actctttggt 300  
 ggcttgaaat gtccttgact tacgggatgt ccataaaata caattttgcc acttactgac 360  
 actttacttc at 372

<210> 7392  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 7392

agcatgtagt ataataggta tgctccttta ttataaatcc aaaaggcata agttagaaaag 60  
 aaaatggaat cttgttttaa atatgaaccg caaggaaatg tatttattaa agtactatcc 120  
 atcataatat tatgtgaact ctctatttaa taataaatta gaatgaatac atttcaatat 180  
 cttttatatt aatattttct ttggatcatt cgatatatttc atatatttaa gttgatttga 240  
 tatgacataa caaaaatttt aaacatgaca aaaaaataaa agacttaaat atgtttttca 300  
 tatatataat attttttttt tcatattggg atctattttt gctttccacc taatctttac 360  
 agaattttgt ctttgataca tgctgttaat atttatctat taagtaataa cgtgatatta 420  
 cattattact gaaacatcat tgtaatagta g 451

<210> 7393  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 7393

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agctttcttc aatcgctgat acgggtgata tggtttgaga aatcttcggc gcctagtata 60
tattgtcttc tttccatggt tcatttggat gaagctcatg tttctctcac aaatagggca 120
tgcacatgac cctttgacac tatatccact taaatttcca tatgttagaa agtcattaat 180
agtacaaaac accattgatc gtaacctgaa ggtctgttgg agattcccat cctacacatc 240
aaccctatca ttccccgact gccttggacc cgctatcatc atacacagga taatgtatct 300
ttgcttgatg cacaacaaa gagggagggt gtaaatcatc accaaaatag gccatgacct 360
gtggtttgtg ctttaagttac caaagaatt cattccacc agagcaagac caagccttag 420
gtttcttggc tca 433
```

<210> 7394  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7394

```
agcttatcaa aggggaatgg accttttttg tcaacaattg gcttcacctt cccactttct 60
aagtaagggg ttagtttctt cagaacttct ccattggaag taactacaaa tctgaagcca 120
ggtggtgtaa cagcacctgt gagtgccacc aactgccat cttctttcac agccttcact 180
gccctgtcac attgccctgc aagtcaccag caaggaatga aacactatca acaacatgag 240
tagtataaat tagtattggg ggaagtggga ttttggaag aaaattttgt gattttccct 300
tatagagtat attgttaaca ggggtgtgagc gttgtaaaca ctctagtacc gtgttcaatt 360
gctacagata aaaaaataga gtatattggt tcattgaatt tcagaanatt aagtatgata 420
tacatgataa caaattttct tttccatcta cctgtgcgga 460
```

<210> 7395  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 7395

tggttcctaa cgctctgttc aggctatccc aaaatctatt gttaccctag gatctctatc 60  
agacactata ctagatggca caccatgtaa tctaacaatc tcactaatat acagggaggt 120  
caacttctcc aaggaaaatc taatattaat gggaatgaag tgagcagact tggtcagtct 180  
atcaacaata acccagatag aatctaaacc tctgggggttc taggtagtcc tacaacaata 240  
tccatggaaa tactgtccca cttccactat ggtatctcca agggttgtaa cttccctgaa 300  
ggctctctgac taaacatgca cacacaaact cactaacctc tctcttcatg ttaggccaat 360  
aaaacatcat cttcaaatcc tgatacatct tggtagcacc aggatggatg ctaaagtttc 420  
tccta 425

<210> 7396

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7396

agcttcactc tgatctgcc a tgttctttaa attaggatcc atagggcttt caacaggctc 60  
acagttctgc atacctgttt cttctaaaat atcaagagca tacttctctt gagaaatcac 120  
aataccatct cctgattgag ccacttcaat accaaggaaa tacttcaaag atcccagatc 180  
tttggtatgg aaatgactga ataagtgtc tttcagctgg acaatcttag tagtatcatt 240  
ccctgtaatc actatatcat caacatagac cattagatag acacattttc caggagatgt 300  
atgatagtaa aatacagagt gatcagcttc acttcatttt agtccaaaca tttgaacaac 360  
atgactaaat ttaccanacc atgctcgagg 390

<210> 7397

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7397

agcttgacat actaggctta acttttttta ccacctttcc ctcagaagca acactacttc 60  
acttggnttt ctaatcttgc aatactcatt gatgacgacg acccgatacg ctttcacatc 120



tggttcac ccatgactaa ccatttccct caaatgctaa acagcctcat cagacttccc 180  
 cacaatgcaa aacccttca acaagctagt gtttgggca acgtcttctt tcaaaccatt 240  
 caactgaatc ctactcatca tcttccctggc ctgcccgcgt tcaccgctca aacaaagacc 300  
 ttcaatcaaa gcattgtagg tcacaacatt cggggaacac cttccataat ctctttcaag 360  
 cactcaagcg catctcgga atcacctctc tttgaatacc ctgcaatcaa a 411

<210> 7398  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 7398  
 agcttatgac aatttgaaat tctttagttt tttogaagat taatttcgag cgtcgcgata 60  
 tattataagc atgaatcgga cctacgtgtg aaaatttatg accatttgaa ttatttgaga 120  
 gcttccgctg ttcaatttcg agcgtctcga catattatgc gcctgaattt gacttgccctg 180  
 tgaaggctat gaccatttga atttctcaaa gagcttccga tattcaactt ccagcttctc 240  
 tatatgtgat ccgcctaaat catgacatcc gagctaaaag ctatgacaat ttgaatttct 300  
 caaaagcttg cggagttcaa tttcgagcat gtgcgtatac tatgcgcccg 350

<210> 7399  
 <211> 559  
 <212> DNA  
 <213> Glycine max

<400> 7399  
 tgagttggtg accattcact ttttaagactt tgggtggttat tttattttta atctcaattg 60  
 caccatgagg aaaaaacatt agtaataaca aaaggatcat cccatctaga tcaaagtttg 120  
 ttggaaataa gcttgagaca agagttaaac aagagcactt tttagtcaat atggaactcc 180  
 ttcctaagga tcctagagtc gtgaaatctc ttcactttct ccttgtaaatt cttggatttc 240  
 tcataggctt ctaagcggat ctectcaagt tcttggaatt aaagcttcc tttcatacct 300  
 acttcatcaa atgccatgtt acaacccttc acttcccaat aagcacggtg ctcaatctcc 360  
 accgaaaggt ggcattgcctt accaaaaccc actctatagg gagacatcct caaaggtaat 420  
 tagtaagcga tcctgtgggc ccatatagca ttctcaaagt tcttgctcca atccttcccta 480

atggggttgca ctaccttctt gaaaacttgc ttgatctttt tattaaaaaa cctccgcatg 540  
cccattagtt cggggatga 559

<210> 7400  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<400> 7400

agcttacaaa tctattttta agtcctttct ctataaacga aataaaataa aatctggaca 60  
agataagata agattggatg aaataaaata tggacgaaat aaaatgtaga tggaataaaa 120  
tctagacgaa ataaaatcta gatggaataa aatctggata agataagatt tgataaaata 180  
aaattgtctg ctctcttcaa gttgaagccc aatttcggat tcaagcccaa ttgcttataa 240  
ttctcctgaa attaaattaa aaacacaaaa ttagtcaagt agggccaaat gataaaaactg 300  
cataattaat ttgacaatta aggctaata gtaattaaaa tgggtgagaaa aagggttaaa 360  
aaataggaga aaataatgac acatcatcaa gctagggttaa tcttttgcct agttactcag 420  
ctggacatga atgtcggag 439

<210> 7401  
<211> 109  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7401

ctgatactgg ggacagatgt cgtacaggat gtcacgacat cacgcttcag aacatgccag 60  
atgtctttga ctgtatgaac aaattaagca agtanataac acaagagaa 109

<210> 7402  
<211> 211  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7402

gaagagaatg ccatgtatca ctgtatatac cagacagtca gtgagagtag gaaattgttc 60  
cttgatttat acgtagatca tantttgctt gcgactaatg ataagggtat gctatatgag 120

gtgaatcaat ttctctcana gaaccttgat atgaaggata tgggagaggc atcttatgtc 180  
atangcataa agatccatag agaaagatct c 211

<210> 7403  
<211> 250  
<212> DNA  
<213> Glycine max  
  
<400> 7403

ccctatgctg ggagggatga tcattccaca ataacctcag tctgcatct ccgacactaa 60  
tggaacgcct actaggtctt taaacatctg cacttccgac ctcaagacaa ataagactgt 120  
gccttcccca gagttaagag tgaccatgga ctagatgatc ggatcagcct atatactcta 180  
tgctgcccac acgatggctg aactcatgta ccctctgcag ccctcacagc acaacagaat 240  
ggcatgattg 250

<210> 7404  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7404

agcttattat ataagataat ntaattctat tttatatcgt aaaaattata gttactatat 60  
atttaattaa gtttggtatt catataagat ttttattatc tctttttatt acataattca 120  
tattataaca tttttttact attaaacatg tagatcaact aaggattata tctacttaac 180  
aaagtattgc caaattttaa ttttaaatat ataattatgt taaattttcg gtcaagataa 240  
aaaaaatata tattttctca tgaatataaa gaactttgta acttctcaat gaaaatgggc 300  
cctgcttctt tagttcactc aattcaaatt aacttcttct ttttcttact ttntatctat 360  
ctttnttaac tgaaaaataa agtaatgttt ttttatttct aatcaaa 407

<210> 7405  
<211> 389  
<212> DNA  
<213> Glycine max  
  
<400> 7405

taaacattca acttcgagcg tctcgatata ttactggact tattcaaaca tccgagtaaa 60  
 aatttattgc ggtttgaatt agctcagaga tacaattatc aatttcgagc gtatcgatat 120  
 attacgggac tcaatcggac atccgagtaa agagttattg tcgtttgaac tagttcagag 180  
 attcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240  
 aaaggttatt gtcgttttaa ctagatcaga gattcaacat tcaattccga gcgtctcggt 300  
 atattaccgg actcaatcga acatccgagt acaaagtgat cgtcgtgtga attggcacag 360  
 aggttcaaca ttcaatttcg agcgtgtcg 389

<210> 7406

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7406

agctttgagc caactcanac gatattttct ttntactcgg atgtctgatt gaggcccgtg 60  
 acatatcgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa cgacaataac 120  
 ttttttcacg gatgtctgat tgagtcccg t aacatattga gacgctcgac attgaatgtt 180  
 gaacctctga gccaatcaaa atgacaataa ctttttactc ggatgtctga ttgagtcccg 240  
 taacatatcg agacgctcga aattgaatgt tgaagctctg agccaataca aacgaccata 300  
 actttttact cggatgtctg attgagtccc tgaacatatc gagacgctcg aaattgaatg 360  
 ttgaagctct gagccaatac aaacgaccat aactatntac tcggatgtct gattga 416

<210> 7407

<211> 420

<212> DNA

<213> Glycine max

<400> 7407

agcttgtatt atagtctata ttgttatggt acgaagaaag taaagttagt actttttttg 60  
 aagaggagta aagtcagtc taaatttcaa taattgtgaa ctagtccagt tttaaaataa 120  
 ggacacaagt gtaccctaaa attaagaatc aataatcgac agataagaaa gcatacgaat 180  
 aattcagtat aaaaaaagaa ggtataggaa taaattactt ttgttaatgt ttcaaattgt 240  
 ttgactccta ataaaattaa ggattaaatt tttttttttt taatctgaag aataaaacta 300

atcaatcaca tcaatcttga aaaataaatt ggcattcaat atattgtaaa atttacatca 360  
 taaataaaga ttttatttct tttctcttgc aaagtaaact tgtattccat gtttaattta 420

<210> 7408  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7408

agcttggaac atatagactg tttttgggtt ctcttangga cttaaacaaa atatccgctg 60  
 gctggtcatt aaaaccaagg aactcactga cgatctcctt ggacagaagc ttctctcgaa 120  
 tgagatgaca accactctct atatgctcag cccctttcatg aaagactggg tttgaggcca 180  
 tatgaacagc agcctgacta tcacaataca ccttcatttg caactcttca catgacctca 240  
 attcttgcag aaatgggtga atccacatga gttcacaagt aaccatagcc atcgatcgat 300  
 attcatcttc tgcactagac cgagctacaa ccgactgttt gttgctttta caagagacaa 360  
 gagatactcc aatgaagaca cagtagcgtg atgtagacct cctatccatg ggac 414

<210> 7409  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7409

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 aaaaaatate taagttcatt tggtttttga gaaagtcctt cattgttttt cattctcaaa 120  
 tgttttcaaa agaaatcctt ttgttggtgt ctgatccaaa aataagtttc acaaatactg 180  
 gttcatgatt ctttccaaaa catgttatgt tcaagacnaa atttctatth aattcctaaa 240  
 aaagagttat aattttataac tatactaaca gaatatcaaa gcacgcacaa attagtcaaa 300  
 ataaacttgc gtaactttct caaaaaatta aaaacaataa ataaggtaat aaagtattga 360  
 aatttaatac aaagcgataa gtaaacacat agacaagttc acgaatattt gaagatcatg 420  
 gctaaggagc tcagtctctt tgacgatcat g 451

<210> 7410  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 7410

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 atgtggaaat tcatctaattg ttttttttaa ttattttatt atatacttta aataaattat 180  
 aaattaagtt attaattata gttaattct atgtatgtaa tgtatatttt cataatgaat 240  
 aataaataac ttatatattt agttaaatgt ataaatttta attttggtat aattagtatt 300  
 atgattataa tattatttat ttaactatta aaataattat tctatatctt tatgattata 360  
 aaaaaagtaa aatataaaaa taattagata attatataat taaaaattac atgtaaatat 420  
 atacaaaaat aattatagat agacttatag ttatatattt taataata 468

<210> 7411  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7411

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 gagctgatat tgaggaggag gaactaacag atttgagggtc aaatcctctt caaggggaag 180  
 gggatgatgc aatcctccct aggaagggtc caatcactag aaccatgagc aagaggctcc 240  
 aagaagattg ggctagagct gctgaagaag gcctaagggt ctcatgaacc ttanggtaga 300  
 tttctgagcc catgggcca ggttgggtcc aattatcttt gtacatatta gactaggatg 360  
 tcattatatt tggctcctgt atatagggtc ccatattgta ggtagggtac cctagaaata 420  
 taggattttt cagcccttgt atttttgggc acct 454

<210> 7412  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 7412

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gtcgtgtcga tttgggatga ctgacctctt cgatgagtcg atctcttgct ttctcataag 120  
ggatgaacct tgggtactag taccctcacc tccagaggac tacatgtcct cgccttcaga 180  
gggccacacg ccctcgcctt caaaggactt cagtcctca ccttcagagg actacacgtc 240  
ctcgccttca aagggtcatg tacctttaac ttcagaggac tacacgtcct cgccatcaaa 300  
gggtcatgta ccttcacctt ttaggggcaa cagccctca ccttcagagg actacacgtc 360  
ctcgccttta gaggggcgca caccctcgcc ttcagaggac tacacgtcct caccttcaga 420  
ggactacacg 430

<210> 7413  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7413

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caacaccgat atggctccca accgaacca gctgcataac atgagtaagc gagagcatga 120  
gtctttcaaa gagtatgtc aacgttggag agatctagca gcacaagtgg cccctcccat 180  
ggtcgagagg gaaatgatta caatgatagt ggatacccta ccgtgttcta ctgtgagaag 240  
ttagtgggtt acatgcctc cagcttcgcy gacttgggtat tcgctggaga aaaggatcaa 300  
agtgggtttg aagaggggga aatttgatta cgtctcccc gccggtacga gcaataggag 360  
gactagagta gctggagcaa agaagaagga gggagatgcc cagccatca cttcaac 417

<210> 7414  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 7414

gattaatacc tcccaaacat caatggtaag aagtggctgc aagaaattaa gataaaatca 60  
catcagaatt taccaggga atgaactcat tagacccaac tatcattcat atttcaagat 120

aagtaaggaa caataatatt attactactt acataatagc ctccccaac aaggggggttc 180  
acagcattgg gactcttgag caccactagc ttgttggcct catctggtga aggaggattt 240  
gctgcatttt ccccatcaaa tttgcttgct ctatctatat ttcacatcaaca aaaaagtga 300  
tgaacaagaa ggatatgtaa ctc 323

<210> 7415  
<211> 357  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7415

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gataaaggta gtgttgccat gttttcaaag ccggtactaa ggcatacaac tccttatcat 120  
aagttgaata gttaagggtta ggaccactta acttttctact aaaataagca attggatggc 180  
cttcttgcat caacacagcc ccaatcccaa catttgaagc atcacactga atttcaaaat 240  
atttttgaaa gtttggcaac gcaagtatgg ggcattagtt agcttttagct taagaacatn 300  
gaaagcttct tcttggttct ctccccattt gaaaccagca tttttcttga gcacttc 357

<210> 7416  
<211> 375  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7416

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agtatatcga gacgctctaa attgaatgct gaagctctga ccaaattcaa acgatgataa 120  
ctttttactc ggatgtctga ttgagtcccg taatatatcg agacgctcga aattgaatgt 180  
tgaagctctc agcagattca gacgataata aattggtaact cggatgtccg agtaagtccc 240  
gtaatacatc gagacgctcg aaaatgaatg ctgaagctct catcaaattc ctacgacaat 300  
gattctgcta gtcagatgtc tgatcgagac ccgtacttta tcgagacgat cgacactgat 360  
tctgaagctc tgagc 375

<210> 7417



<211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7417

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 tgatgaggat gggattttgt gaaagatgga gaaaatggat ccatggatgc ctttctagtg 120  
 caactatata aattttgatc aatgacagcc ctactagaga atttgtgctt gagagggggac 180  
 tgaggcaagg agatccccct gcacctttcc tatttaatat agcagctgag ggactcactg 240  
 gtttgatgag gacagttgtc tccaaaaacc ttttcagcag ctataaagtc gggaggcaaa 300  
 aggaggagat taacatcttg cagtatgcag atgatacact gttttttgga actgcaacta 360  
 tagctaattg tagagtcatg aaatctatcc tcagaatttt cgagttgggt tcaggactca 420  
 agattaacta tgctaaaag 439

<210> 7418  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 7418

agcttatagg atgtgatcgg actattatga tcaacttctgt cgccgcatag ataggtaaata 60  
 gggcttctct aattgctgag atgtgcaatg atccaggatc attcagcata ccttgatatca 120  
 tagggaatag caagcttgac aatgccatgc tagatctaag agcttctgtt agtggtatgc 180  
 ctctgtctat ttttaattct ctatctttag gtccgttgca gacaactgat gtggtaattc 240  
 atttagctaa cagaagtgtc gcctatgctg ttggtttcat agaagatgtc ttaactagag 300  
 ttggtgaact aactttccct gttgataatt atatcttgaa tatggaagat ggattttctc 360  
 agagatcagc tcccatcatt ctaggcagac cctttatgac aactgctaga acta 414

<210> 7419  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7419

agctatgagg aaatncaa at taaattcttt ttaactcgna tattcgattg agtcccgtaa 60  
catatcgaga cactcgaa at agaatacaga agctgtgagc aaattcta ac gtcaataact 120  
ttttacaata atgtccgatt gagtcacgta atatatcgag acgctcgaaa ttcaatgcag 180  
aagctctgag caaattctaa cgacaataat tttttactta gatgaccaat tgagtcattg 240  
aatatttcga gacactcgaa attgagtaca gaagctctga ggaaattcaa atgaaaatac 300  
atttttactc ggatatccga ttaagtctctg taatatatcg agaaactcga aataaataca 360  
gacgctgtga gcaaattcta ac 382

<210> 7420  
<211> 426  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7420

agcttccctg ttnntgcttt aacagttgat gtctttattc atatgagaat atgccttttc 60  
tttntattgt aaagatgaaa tctcatacaa ttgtctaatt tccatcagaa ggcaatgaag 120  
atgccaatca ctgtggaagg aaatgagctg agtagattta gtgacccgcc aggagatgcc 180  
tacttgatg atttatttca tccattggat aaacaacctg nggaggttgt agcagaggcg 240  
tccacttcta catccacttc acatatgact aaaggtaatg catctgcaat tgatggtgtg 300  
aaaaatgact tggctaaaga gttgagagct acaattgctc gaaagcaatg ggagaaggaa 360  
agtgaattg gacaggcaaa caatggcggg aatcttttgc accgagtgat gataggcggt 420  
ctaaaa 426

<210> 7421  
<211> 419  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7421

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ctcattaaga actagctctt ttcttctct atngccttta gttgaataca cctttgtttg 120  
gttctctatt tggttcttaa ccctctcatg catcttcttt acaaattctg acctagattc 180

cccttcttta tgtataaaaa aagtgtccag tgggagggga atgaggtcta acggtggttag 240  
 gggattgaac ccatagacaa cctcaaaagg ggactgcttg gtggttctat gaacccccct 300  
 gttgtaggca aattctacat gagaaagata ctcatcccaa gacttatggg tgcctttcag 360  
 aagagccctt anaagggtgg ataaagacct attcactacc tctgtttgcc catcagttt 419

<210> 7422

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7422

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 gcttagctac ataccccccta taatagctaa gctcaccgc atgacaaana aacatgaaaa 120  
 taccaaaaaa aaagtcctta ctacaaagaa tactcaaat gccccgaaat acaaggctaa 180  
 aaccctatac tactagaatg gccaaaatac aaggcccaaa cgaaggaaaa acctattcta 240  
 atatttaca agaagagtag atccaacctt gacccatggg ctcaaaaatc taccctaagg 300  
 ttcattgagaa tcctagggcc ttcttttagta gctctagccc aagtctcttg gagtcttcta 360  
 tccaataccc ttggggggta ggattgcac agcagctata ggcaggattt atatccatta 420  
 cttgaaacac cacattgcaa gtgtgggggc ctatctgaat ggggaatgt 468

<210> 7423

<211> 422

<212> DNA

<213> Glycine max

<400> 7423

agcttgctga tacaattatt aggggattgt ttagtactgg cctataacaa atagtccaaa 60  
 ggaggttatg ttcttgggtg agttggaaga agtcttgga gcaactcaac cccagaatt 120  
 tcagcgttgt atggtgccat tgtttcgtcg cattgcacgt tgtttgaata gccctcattt 180  
 tcaggtttga atttttcaat actttcctct ggctcctttt ctgtttctcc tcttatttca 240  
 tgatgaaaat acacctgaat ttcaaattaa ttctctctgg caacttcctt catactgatt 300  
 acctgaatcc tatatctcaa ttcacttcct ctagttgata agttgtttta attagcaaga 360  
 aaaggactaa cctttttgca tcatcctata gctaaatgca tattgtctta tggttttgaa 420

gt

422

<210> 7424  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7424

agcttagaat tatacaataa cactttttgt ttctccatga agtccttctt aattatcatg 60  
 ctatcatgga acttcttggg cttttctttg tagaacttgg cattctcata cgcttctagg 120  
 cggatctcat ctaactcact cagttgcaac tttctttcct caccagcttg atccatagag 180  
 aagttgcaag tcttcactgc ccagtatgct ttgtgatgta atcctacccc ccaagggcat 240  
 tggatagaag actccaagaa gattggacca aagatgcaag agaaggccct agggttctca 300  
 tgagccttag ggtagatttt gggcccatgg gttaagtatg tgcccactta tctttgtaca 360  
 tattagatta aggtttcatt aattntgggt cttgtattta gggctccata atgtaggtag 420

gg

422

<210> 7425  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7425

taccctgatg aggatgtccc atatgttcta tttctggact gattcatttg cttccaaagt 60  
 ttcatggcct tgcaggtgaa gaccgcaca aacatttgaa agaatttcac attgtctgct 120  
 ccaccatgaa acccccagat gtccaagagg atcacatatt tctgaaggct tttcctcatt 180  
 cattagaggg agtggcaaag gactggctgt attaccttgc tccaagggtcc atcacgagct 240  
 gggatgacct taagagagta ttcttagaaa aaattttccc tgcttccagg accacagcca 300  
 tcaggaagga tatctcaagt attagacaac tcagtggaga gagcttgtat gagtactgng 360  
 agagatntaa gacactatgt gccagttgcc cccaccatca gatttcagaa cagcttcttc 420  
 tccaatatct ttatgaagga ctcagtaata tggagag 457

<210> 7426  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7426

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tcaagcaaca gatataatcc cagttggaag aatcatccaa ctctgagatg ggcaagtcct 120
ccacaacaac aacaatctgt ccttcctttc cagaatattg ctgatccaag caggccatat 180
gttcctcctc caatgcagca acaacaacag caatcacaac aaagacaaca agcaattgag 240
gctcctcctc aaccttccgt agaagagtta gtgaggcaaa tgaccatcca agatatgcaa 300
tttcagcaag agacaagaga ctccattcag agtctgacaa atcagatggg gcagatggct 360
actcagttga atcaagctca gtccaaaat tctgacaaat ggccttcaca aactgtggaa 420
aatctgaata atgtgagtgt catcaccttg 450
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<210> 7427  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<400> 7427

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tccttgagaa gattcctaaa gaagctagag cttagctact tacacttttc taatagctaa 60
gctcacctcc ataagatgag aagccagagc ttagctacac accccaata aaagctaagc 120
tcaccctcat gacaaaatac atgaaaaaac aaaaaaagtt cctactacaa agactactca 180
aaatgcctcg aaatacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc 240
caaacgaaga aaaaacctat tctaataattt acaaagataa gtgggctcat acttacccca 300
tgagctcgaa atctacccta aggctcatga gaatcctagg gccttcctt ggatctctgg 360
cccaacctac ttggagtctt ttatccaatg cccttgcggg ataagattgc atcaatatgg 420
aagccttaag ttgtcacaac tcaacctccc aatttcacaaa tgtatgacta acacag 476
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<210> 7428  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 7428

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tgcataatat atcgagaccc tcgaaattgc acaacggaag ccctcaagaa agacaaattg 120  
tgataacttt tcaaacggaa gtccgattca ggtgcataat atatcgagaa gcttgaaatt 180  
gaacaatgga agctctcgag aaattcaaatt ggtcataact tatcacacgg aagtcggatt 240  
caagcgcata atataccgag acgctcgaaa ttgcacaacg gaagccctca agaaattcaa 300  
gtggtgataa cttatcacac ggaagtccga ttaagggtga taatatatcg agacgctcga 360  
aattgaacaa cggaagggtg cgagaaattc aaatgggtcat aacttatgac acagaagtcc 420  
gattcaagcg cataatatat cgagacactc gaaa 454

<210> 7429

<211> 420

<212> DNA

<213> Glycine max

<400> 7429

agcttgaaat tgaacaacgg aagctctcga taaactttat ggtcataact tatcacacga 60  
acgtccgatt caggcgcata atatatcgag aactccaaa ttgaacaacg tagggctctg 120  
agaaattcaa atgttcataa cttgtcacac gaaagtccaa ttcaggcaca taatacatcg 180  
agaagctcaa aattgagcaa cgaatgctct cgtgaaattc aaatgggtcat aacttgtcac 240  
acggaagtct gattcaggcg cataatatat cgagacgctc gaaattgaac aaccaaagct 300  
ctcgagaaat tcaaattggtc ataacgtttt acacggaggt cggattctgg cacataatat 360  
atcgagaagc tggaaattga acaaagaaag ctctcgagaa actaaaatgg tcataactta 420

<210> 7430

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7430

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caagcagtga ctggtaaatt gtccaagcgc ttctatggac cgtctcagat catagaacgc 120  
gtgggtaagg tagcctatcg tttgaagctt cctgatgggg ctcgatatcca tccggtattt 180

cactgttccc ttttgaagcc attccacgga gaccccatc ttgattcacc caattcactg 240  
 ccgacacgct ttattaacgg tcaaccgatg cttacaccgc ttgccattct tgattatctg 300  
 cgacataaag agagggacac gtgggaagta ttgggtccant ggcattggact tttcactgat 360  
 gaatcctctt gggaggactg ggaacagctt aagcaggatc atcaccttg 409

<210> 7431  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 7431

cgcttggagt ttccaagtgc caactcgtct tcttctttat tctagtcttc ttctggcttc 60  
 aattcttcag tgggctttcc ttctgtgtcc agcatcttgg gatgttccca gcctttgatg 120  
 acagctttcc aggttctgct atccagtgat ttgaggaagg ccaccattct tgctttccaa 180  
 tattcatagt tgcttccatc gagaattggg ggtctgttca ctgggtccgc ttctttctcc 240  
 atgttcatca gaatttatct ccctagatct cactctgtga tttcgagtgt tggctctgat 300  
 accaattgaa attctgatac caggggacag atgtcgtacc ggatgtcacg acatcacgct 360  
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 gaattgttta cccagttcgg tgcaacctca cctacatc 458

<210> 7432  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7432

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 tttgactcgg atgtacaatt gtgtcccgtg ggatatcgtg acgctcgtaa ttgaaaacgg 180  
 aagctctgag aaaaatcgaa cgataataac ttttaactcg gatgtccgat tgagccctgt 240  
 aatatatcga gacgctcgaa agtgaaaacg gaagctctaa gaaaagtcaa ccgacaataa 300  
 cttttaacta ggatgtccga ttgagcccta taatatatcg agacgctcga aatggaaaac 360

ggaagctcta agaaaagtca aacgacaata acttttgact eggatgtccg a 411

<210> 7433  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7433

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 gtaatatattt tacatttctc tagttgtatt cctgtagaa tatggactag gttagtacgt 120  
 ctcatcttat gaatgttatc ccactttctc tttcttctca tgtagttttt gcttaatttt 180  
 tttggctttt gctttagggt gttgctcaca tgatgcctga ccttccta gttgggtgtg 240  
 aaagggacat ggaaagtttc cgggagtttt ttgagagccc catgtttaga gcagatgggc 300  
 ttaaaatata tcctacactt gtaattcgtg gaactgggct ttatgagctc tggaaaactg 360  
 gcagggtatat atcanatgtt ttcttattat tggactgctt tttcctcaaa catctcaa 418

<210> 7434  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7434

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 taattgtcat ttacttcat tgtagtaaat ttctaaggaa tccatttcct aagaaatctc 120  
 gggcaataaa tagacataac cgtaacgtga ataatcatca ataatgggtga taaagtatca 180  
 ttcctttttg aaagaactaa caccaaaaagg tccacaaata tcagtatgca caatttcaag 240  
 aagttgagtg cttctttag ctcttttctt tgtatgtttt gcttgggttt cccttaatac 300  
 aaccacaca aatattttaga tccgtaaaat ctagataagg aagaatttca ttctttatta 360  
 atctttccat cctttctct 379

<210> 7435  
 <211> 417  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 7435

aacaaaataa agggactgag ttgaatattt aaaatataca catcaaaatc aatcaataat 60  
gaagttacca tgtaataatt tataaatgat ccccttttct gtataaacct tgcaactgaa 120  
aatgccaaagt cttcagcagg tcgatgagga acaggacctc caaactctgt aaacctgcaa 180  
gcataaaaga ggaatagagg caatgaataa tcacttgata tctctagctt gaatgattct 240  
tattcttatg gaaaccaaag aaataagaaa caaggcatca ataccagcca gtccaagctt 300  
ctgtccacat ctttggttgg taagccttat ttggagagaa ataatcacia tagaagccat 360  
tgcaagtgtt aatctgtgaa acattntatt acatttgaaa ttagaagtng aatactt 417

<210> 7436  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7436

cgctgcagct atatattact gngattctat tanccttagtc aattgntcct tggatatagc 60  
gaagaattca ttttgcagcc ttgagatgag tagtggttgg agtttccatg tatcgactga 120  
tgagtccagt agcatataga atgtctagtc ttgtgcacat caaatatcac aaactatgta 180  
ccaaactcctt gaaatttgta gcatccacct tttttgcttc gtcgaacttt gataaacttca 240  
tttagcactc cacttgtgta ccaactggct tggagctatc catcttgaat tttttgagca 300  
tctcctttgc atatttttgt tgtgaaatga agatttcac tttcttctgc tttacctcaa 360  
tgtcgacata gtatgacatt agtctaatag tggtcacatc gaactctttg atca 414

<210> 7437  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7437

tgtcccacan acctctctaa catctggtcc atgttgggtt tattataatg gtcttttctt 60  
gtggctttgt tggccttgcg gtagtcgatg tacattcttc agccaatgaa aatccttgtt 120  
gggattaggt cattcttttc aatccgaatg actgccatgc ccccttttctt tggtagcacc 180

tggactaggc ttacccaaac actgttggaa atggggtaga taagcccagc ctctagaagc 240  
 ttgagcacct ctttccgcac ctcttccttc attgatgggt tgatccttct ctgggggttgt 300  
 cttactggtc tatagtcttc ttccatgatt atcttgtgca tacagtaagc aggggttgatt 360  
 ccttttagaa ttgatatgtg ccaccctatt tgcctcttgt gtct 404

<210> 7438  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <400> 7438

cccatgtgaa ttgcttacat agatctgtta tatcccacta attgttctcc ttttgaagtt 60  
 gtttatgggt ttaaccact aactcctctt gatcttttgc ctatgcctaa tgtttctggt 120  
 ttttaagcata aagaaggcca agcaaaggcg gactatgtga agaagcttca tgagagagtc 180  
 aaagatcaaa ttgagaggaa aaataaaagc tatgctaaac aagccaacaa agggagaaaag 240  
 aaggctgtct tcgaaccgg agattgggtt tgggtgcacc tgagaaaaga aaggtttccg 300  
 gaacaaagga aatcaaagct tcaaccaagg ggagatggac catttcaagt gcttgaaaga 360  
 atcaatgaca atgcttacaa agttgagctg cccggtgagt ataatgttag ttccaccttc 420  
 aatgtctctg aattatctct t 441

<210> 7439  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7439

cccgactgag ataagggtta gacacatggt tgggtttttt ctacctctt caacatgagc 60  
 ttatgcccta tggtggcat aaaagtgatg tcaccaatgc ctactagttt tcttgtgaca 120  
 caatttccca tttttaccgt accaaagtca cccattttga taggttgaga aaaatcctcc 180  
 atgtgggcta acgtggaaag atgcacccga gtcaacaatc catgaacaat catcacatgc 240  
 atcattaaga tagttgtctt ctccaatgag gaatacatca tcatctagat ctgtgcaat 300  
 gaccatagtg ctcttctct cctttntctt agaatcaatt tgggtctggct taacaatgcc 360

gattttttgt ctctcttgag atgtcgacat

390

<210> 7440

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7440

agcttgacgt taatctcatt ttgtttttta tgaccttgng agaggtttac caaggatgtc 60

atacaaagat gaaacaaatt aaaacctctt tttcaagcaa aaactttgtt tcctcaagac 120

cacttgaact attacatatt gatctgtttg gctacaatga atgactacat tagatggaca 180

tgggtaatgt tccttgctca taagaatgag tcctttgagg tattctttaa attttataaa 240

agagcttaaa atgaaaaaaaa agtatgcgtt acttcaatta gaagtgatca tgggtggagag 300

tttgaaaatg agaactttcg tctattctat gaagaaaatg gaacttttca taatttcttc 360

atgtcatacc ctaatttcat tcggggacga atgtttgtca acat 404

<210> 7441

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7441

cgacaataac tntctactcg gatgtttatt ttgttcccgga atatatcgaa aagctcgaaa 60

ttgaatgttg aagctctaag caaattcaaa cgacaaaaaac tttntactcg gatgtctgat 120

tgagtcccgat aatatatcga aaagctcgaa tgtgaatgta gaagctctga gcatattcaa 180

acgacaataa ctttttactc ggatgtctga ttgagtcccg taatatatcg agatgctcga 240

aatggaatac cgaagctcgg agcaaattca aacaataata actttttact cggatgtccg 300

attgagtccc gtaatatatc ggaacgctcg aaattgaatg ttgaagctct gagcaaattc 360

aaacgacaat aacatttttac tcggatgtct gattgagtcc cgtaatatat ctagacgctc 420

<210> 7442

<211> 220

<212> DNA

<213> Glycine max

<400> 7442

tttgtactca atcagacatc cgagtcaaaa gttattgtag tttgaatctg ctcagggcct 60  
ccgtattcca tttcgcgcgt ctcgatatat tacgggactc catcggacat ccgagacaaa 120  
agttcttgtc gtttgaaatt tctccgaact ctcagaattc catctcgagc gcctcgatat 180  
attacgggac tcaatcacac attccaataa aaagttattg 220

<210> 7443

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7443

actcagcttt tatccaggct catcttggtg gtgaagctcc ttcttctatg gcttattccc 60  
tagaggatgg cgctcctct cactcttct cctttgtctt ccgctgcatt tccatggcgg 120  
aaaatcatca ttaaaggacc tcattgaagc tcaaagatcc agccttcata gaagccccac 180  
aagcaagctt ccactactgc tgttgctggt gctgagggct ggaccatctg aggatagggt 240  
gattcttcta tccacgggtg tatctgttgc tggagaggct ataattgttc tgctgtgggt 300  
gattntgctt ctgagggtga ggaggtctat tgtaaattatt tgcagcataa gct 353

<210> 7444

<211> 416

<212> DNA

<213> Glycine max

<400> 7444

agcttctcga tatattacga gactcaatcg ttcatttgat gaaaaagtta ttgtcatttg 60  
aatttgttcg aagcttctat tttcaatttc aagcatcatg atatatgacg ggactcaatc 120  
ggacatccga gtaaaaacta attgtcggtt gaatttcctc agagtttcta ttttcaattt 180  
tgtgagtcct gatatactac acgattcaat cggactttcc agtaaaaatg tattatcggt 240  
tgaattttct cagagcttct attttcaatt tcgagcacct agaattatta agggactcaa 300  
ttggacatcc gagtcaaaag ttattgtcct ttgaatttcc tcagagcttc tattttcaat 360  
tctgagcgtc tcgaattatt aaaggactca atccgacatc tgtgtcaaaa gttaat 416

<210> 7445  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7445

agcttgtcaa aaagggatgt ctgttttaaat ctctnttcaa agtaaaaacy ttgtttctac 60  
 ttcaaaaccc tttgaactac ttcacataga cttatttggg gcctctagaa ctatgagttt 120  
 gggtggtaat tactatggct tagttatagt agatgattac tcaagattca catggacttt 180  
 gtttttgaaa accaaagatg aagcttttga tggtttttgc aaacttgcca aggtcattca 240  
 aaatgaaaaa aggtcttaac attgtttcac ttagaagtta tcatggaggt gaatttcaaa 300  
 atgagtctct tgaaatgttt tgtgaagaaa atggaattca ccacaacttt tctaccctaa 360  
 gaacacctca acagaatggg gtcattggaga ggaaaaatag atcccttgaa g 411

<210> 7446  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7446

tganatggaa caacggaagc tctcaagaaa ttcttatggc ttatatcttt tcaactcggat 60  
 gtccaattca tgcgcattcac atatcgagat gtcgcacata gaacaacgga agctctcgag 120  
 atattccaat ggtcataact tttcactcgg atgtccaatt caggcgcac acatatcgag 180  
 atgctcgaaa ttcaacaacg gaagctctcg agacattcaa atggtcataa cttttcacac 240  
 ggagggtgca ttcaagcgca caatatatcg agacgtcca aattgaacaa cagaagctct 300  
 caagatatc gaatggtcgt aactattcac tcggatgtcc gattcangcg catcacatat 360  
 cgagacgctc gtaattaaca ctgggagctc tcgacatatt c 401

<210> 7447  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 7447

agcttctatt ttcaatttct agcgtctctt atattatgag cctgaatcgg acctctgtgt 60

gaaaagttat gaccatttga atatctcgag agcttccact gttcaatttc gagtgtctcg 120  
 atatgtgatg ctctgaatc ggacatccaa gtgcaaagtt atgacccttt taattttctcg 180  
 agagcttccg ttgttcaatt tcaagcatct cgatatatta atcgctgaa ttggacatcc 240  
 gactgaaaag ttatgaccat ttgaaatfff ggagagcttc cgttgttcaa tttcgagcgt 300  
 ctcgatatgt gaagcgcctg aattgacctc cgtggaaaag tttgaccatt gaattctcga 360  
 gggcttccgt tgtcaattac aacgtctc 388

<210> 7448

<211> 555

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7448

tgcttctaca agattcagat tcaatgcata aggagtgata agtatgcaga tctgataaaa 60  
 atggatgggt cctaccatga agaacaaaat caaaatcaaa catataatca tcaacaatct 120  
 gatcaattat ctcaacacga aaaatagaat gatcctcaga tggatgtttc atggcatcaa 180  
 gaatgttaaa atgaacaaca atatcaccaa attccataga caatgtgcca gcataaacat 240  
 ctatcttggg tggggctgtt ctcataaatg gcctgcctaa aataattgga actgaaccat 300  
 gggaaaatcc ctcttccata ttaagaacat aattaatcaa caggaaaaat aagctcacca 360  
 acccgaacca gcacatctc tatgaaacct tcggggtaag caacacttct atttgccaaa 420  
 tggatcacia catctgtaga ttgcaaaggt ccaagagata aagaattgaa aatggacaaa 480  
 ggcatgacac taactgatgc tcctagatct agcatggtat tctcaaanta ctgttcccaa 540  
 taatgcaagg tatac 555

<210> 7449

<211> 487

<212> DNA

<213> Glycine max

<400> 7449

ttcagccatt tcaaacgatc ataacttttt actcggatat catattgagt cccgtgatat 60  
 aacgagacgc tcgaaattga atattgaagc tctgaactaa ttcaaataac aataactttt 120

tactcggatg tctgattgag gcccgtaata tatcgagacg ctcgaaattg aatgttgaag 180  
ctgtgagcca atttaaacga caataactgt ttactcggat gtctgattaa gtcccgatcat 240  
atatcgagac gctcgaaatt gattgttgaa cctctgagcg aattcaaacc acaataactt 300  
tttactcgga tgtgtgattg aggcccgtaa tatatcgaga cgctcgaaat tgaatgggta 360  
agcttttagc caattcacac gacaataact atttactcgg atgtctgatt gagtcccgta 420  
atataacgag acgctcgaaa atgaatgttg aagctctgaa ccatttcaac gaccataact 480  
ttttcct 487

<210> 7450  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 7450  
agcttcaaca ttcaatttcg agcgtctcga tatgttacgg gactcaatca gacatccgag 60  
aaaaaagtta ttgtcgtttg aattagctaa gaggatcaac attcaatttt gagcgtctca 120  
atatgttacg ggactcaatc agacatccga gaaaaaagtt attgtcgttt gaattagctc 180  
agaagttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 240  
attaaaaagt cattgtcggt tgaattggct cagagcttca acattcaatt tcgagcgtct 300  
cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360  
tcaaaggttc aacattcaat ttcgagc 387

<210> 7451  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 7451  
atgctgccta catctacaac acagcttcta taccttcgct ggcaaatacag ccacgacaga 60  
atgattatct acctcttcgg cgatatgtac ggtcccagat ggacgaatca tgcctacctt 120  
atatggtcac atccttcacc ataacagcag caccaacaac aaccttattt tcgaaaagta 180  
gctggcccac gcagaccata cgttcctaca acaatccagc aacggcaata acaatatccc 240  
cacaacaac acacagttca ggctcctccg caagcttacc ttgaagaact tgtgaaggtc 300

ctctgtaaac ctcacaatct ctcaaaatct catccaaagc taacaaaaat agattgctat 360  
gcgagctcaa ctata 375

<210> 7452  
<211> 531  
<212> DNA  
<213> Glycine max

<400> 7452

tgccatctta tcaaagcaac attcttaatc tatatgcaac agcgagaaaa gaaagcacia 60  
agaggaaatt cacaaaacca aatgagataa acatcaatcc acatttggtt tctggagaat 120  
ataagagaaa acaccgctt cactcaggca gagggaaaacc tctcaaaggc gcataattct 180  
catgcaggca attgtttcat cacaattcca ataagtata tgcataaat caatttttgc 240  
aagtcattta ccatcaaatc aaagataaat tgcataatca tcatggatca ttagggcttt 300  
tacgatttgg actaactttg aaagacatat tggtttttct ggatattcaa aaacaccttg 360  
agaataggaa agcaacataa aaacaaactg acaatttaaa ataaatcatt gcttcctatc 420  
ccttcccatt ttaaccaaatt tatgactact tactatacca aaatcttcac ttataataat 480  
taccaacatc tgtatacagt ttataacaat gcagacattt atctacttcc a 531

<210> 7453  
<211> 616  
<212> DNA  
<213> Glycine max

<400> 7453

taaacacaat tatgcaacaa aaaatagaag tttccataag atataataaa tttaaaatgt 60  
gcttttctaag ttgataccta acatcataat aacataagct gattgcaatt tcaaagttct 120  
ttataactctt agaaaaaagg tccatacact cttaatttct ccttttcttt caaatctcat 180  
gattaagaga acacattctc aaatcaagaa aacaaaatca tatgattgaa ttgaatactt 240  
atctttctaatt gatgtttctc tggtcacaaa taaaacaaaa tgggttgaact tagttacgta 300  
ataatcatat catgaaatag cagaaaaagg tcagccatca taaattgaat taatcatttt 360  
tacaccctaa gtagtaatca taacaatcat gtctaataga gctgctaaat atttagctca 420  
cctctctgcc atctatggaa ttcagtagtt gaacttagat actcgctcta ttaatggctc 480



caaagatagt cttctatctt tataaatcaa taggaagtac gaagacaaaa aatcaataga 540  
 aaatagcata ggtacagact atccatgata ataaaaatac actctctaga gaacaaaaaac 600  
 aagaataaca gaattt 616

<210> 7454  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7454

agcttcaaaa ttgcaacaaa ggagttgttc ttgtaaaaaa tttcgtctt caaactctta 60  
 gaggtgactt tgagcgtttg tttatggagg agtccgagtc aatttctgat tttttttctc 120  
 gagtattggc cgtagtcaat caacttaaaa gaaatgggtga agatgttgat gaggtgaagg 180  
 tcatggaaaa aatacttcga actttaaatc caagttttga cttcattgtt accaacattg 240  
 aagaaaacaa ggatttaaag accatgacaa ttgagcaact catgggttcc ttactagcat 300  
 acgaagaaaa acaaaagaga aaaattaaac aaaaggaggc tacggagcaa ctactacaac 360  
 tcaacgtaaa ggaagcaaac tatgcatatt acaagagcca aagaggacga agtcncggcc 420  
 aagatcgtgg acgttgacga tgacatggat gagaacgaag aggtgggttac aacaaccact 480  
 ccaacaaatt cacaatggag aaagaatttg aat 513

<210> 7455  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <400> 7455

atactcagct tgtgcatcca ataccctgat gaggatgtcc catatgttct taaagcagga 60  
 ctgatacatt tgcttccaaa gtttcatggc cttgcagggtg aagacccgca caaacatctg 120  
 aaagaattcc ctattgtcta ctccaccatg aaatccccag atgttcagga ggatcacata 180  
 tttctgaagg cttttcctca ttctttataa ggagtgacaa aggactggct atattacctt 240  
 actccaaggt ctatcacgag ctgggatgac ctcaagagag tattctttaga taaaattttc 300  
 cttgcttcta tgaccacgac cattataaag gatatttcag gcattatgca actcattgga 360  
 gagagcctat atgaaatatt gggagagatt taaaaaacta tgtgccacga gccctcacta 420

cccgatttc tgaacagctt ctcttccat attttta

457

<210> 7456

<211> 506

<212> DNA

<213> Glycine max

<400> 7456

tctatagaag ggtcgttcct aatttctcta caattgcac acctctcaat gagctagtga 60  
agaagaatgt ggcatttacc tggggtgaaa agcaagagca agcctttgct ttgctcaaag 120  
aaaagcttac taaggcacct gttctagctc ttcctgactt ttctaaaact tttgagctag 180  
actgtgatgc ctctggagtg ggagttggag ctgttttggt gcaagggtggg caccctattg 240  
cttattttat tgaaaaactt catggtgcga cccttaacta cccacctat gataaagagc 300  
tttatgcctt aataagagca ctccgaactt gggaacatta ccttgtttcc acggaatttg 360  
tcattcatag tgatcatcaa tcacttaaag tcattagagg gcaaagcaag ttaaacaaaa 420  
ggcatgcaaa atgggtagaa gacctaaagc aatttccata tgttatcaca tacaaaaagg 480  
gtaaaacaaa tgtggtagct gatgcc 506

<210> 7457

<211> 372

<212> DNA

<213> Glycine max

<400> 7457

agcttttggt tgggaataata acctatctcc tcgggattgg gacaccgaaa tgggaaaatc 60  
ctttgccaat gctattcatg gtgtggaaaa agaggagttt gctacttata tggccctcgc 120  
atagcacttc acggtcttgc atcggcgagt aaaacttacg ctatttgagc tgccgttcac 180  
agcaccatta gatttctact ggcaacactg aaagacgatg gtgggcgggg agaaagctat 240  
ctttcatgcc caagaacaag ttagacattg aatgctcaac ggaaacagga tactctccgg 300  
cctatcaaac tgcatccaat acgcgagaac gtatgacttt cacctcttat gatgcggatg 360  
acttttagcac at 372

<210> 7458

<211> 531

<212> DNA  
<213> Glycine max

<400> 7458

agcttttttgg caaaggaaga acaagaagag agatgagtag aaaggaattc ttagaagttc 60  
'taaaaaattg ttaaagagtt gtaaaagttc tattgaatgc aagtcaaggt cttacataaa 120  
ctcttcatgt cgggtcaaga aaagcattgg aagagttata accttgagaa aatcaagtca 180  
agagttacaa cttttgactt tttattcaaa agttatcact ggtaatcgat taccataatc 240  
atgtaatcga ttacacaatg cattttatga aaagttgtga ctcttcacaa tcagatttga 300  
attccaacgt tcagatacac tgggtatggta atcgattaca ttatttgaaa aatatttttg 360  
aacgttgcaa atcagttaaa aacattttga aatcaaatat gggcacaggt aatcgattac 420  
atgaaactgg taatcgatta ccaaagagta attactctgg taacttgaaa attttagaaa 480  
actcttttga aaacaaaatg tgcttgtttg gatttttttg aaaaaaactt c 531

<210> 7459  
<211> 451  
<212> DNA  
<213> Glycine max

<400> 7459

tcagaattca atttcgagcg tctcgatgta ttacgagact caatcagaca tccgagtaaa 60  
aagttattgt cgggtgaatt agctgagagc ttcaacattc aatttcgagc gtctcgatgt 120  
attacgggac ttaatcagac atccgagtaa aaagttattg tcgtttgaat ttgctgagag 180  
cttcaacatt caatttcgag cgtgtcgatg tattacggga ctcaatcaga catccgagaa 240  
aatagttatt gtcggttgaa tttgctctga gcttcagaat tcaatttcga acatctcgat 300  
atattaccgg actcaatcag acatttgagt agaaaagtta tggtcgttcg aattagctga 360  
gaggtgcaac atccaatttc gagcgtctcc atgtgttccg ggactcaatc agacatccga 420  
gtaaaaagtt attgtcgttt gaattagcct c 451

<210> 7460  
<211> 327  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 7460

agctntgagc taatttaaac gacaataatg ttttgctcgg atggctgatt gaaacccgga 60  
atacattgaa gacgctccaa attggatggg gaaactctca agcaattcaa accaccaata 120  
cctttttact cgggatgtct gattgggtcc cgcgaatata tcgagacgct cgaaattgaa 180  
tggtgaagct ctcagcaaatt tccaacgaca ataacttttt tactcagatg tctgattgag 240  
tcccgcaata tatcgagata atcgaaattg aattttgaag ctctaagcta attcaaacga 300  
caataacttt ttgctcggat gtctgat 327

<210> 7461

<211> 403

<212> DNA

<213> Glycine max

<400> 7461

agctttgagc aaattcaaac gacgataact ctttactcgg atgtctgatt gagtccctgta 60  
atatatcgag acgctcgaaa tggaataccg aagctctgag caaattttaa cgacaataac 120  
ctttttactc ggatgtcaga tcgagtcgcc gaatatatca agatgctaga aattgaatgg 180  
gaacactctg atcaaattcg aacaacaata actttttaact cggatggccg atcgagtctc 240  
ggtatatatc cagacgctcg aaatggaata tctaagctct gagcaaattc aaacactaat 300  
aactttttac tcggatgtcc gatagagtcc cgtaatatat ctgaacgctt gaaattgaat 360  
gctgaaagct tgagcagatt caaaccacaa taaattttta ctc 403

<210> 7462

<211> 479

<212> DNA

<213> Glycine max

<400> 7462

tgcatcgtag aatgacgggt gattttgtag ctccaacatt tgtgaatggg aaagctaaaa 60  
ttacgattga tgaatctgat gtatctgggg aacttgaatt ttgggaaaat tctattattc 120  
tctttgcact aggtgagtct ctttctatga atgctgtgaa gaagtttatg gagaagacct 180  
ggaatttcac ttcagaacca gaattatctt acaatgatga tggttacttt attgtgaaat 240  
gcaagaatag ggaagacatg gagctgggta tggaacaagg tccctatttc atttacggta 300

aatcattatt cctccgcaag tggacatctg attttgagat gaaggaagat ctattgcgag 360  
 ttcttccaat ctggataact ctacctcaat ttcctctgca tctgtgggga gaaaggagta 420  
 tttcgaaaat tgctagtatg gttggtaaac ctataacaac agatgaatgt tctgcgaag 479

<210> 7463  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<400> 7463

agcttcctta agaagattcc taaagaagct agagcttatac tacacacacc tctctaatag 60  
 ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120  
 aagttcacc ccatgacaaa atacatgaaa atacaaaaaa ttcctacta caaagactac 180  
 tcaaaatgcc ttgaaataca aggctaaaac cctatactac tagaatggca aaaaatacaa 240  
 ggcccaaaca aaggaaaaac ctattctaata atttacaag ataagcggtc tcatacttag 300  
 ctcatgggct cgaaatctac cctaaggctc atgagaaccc tagggctctc ccttgatct 360  
 ctagcccaat ctacttgag tcttctatcg aatgcccttg cggggtagga ttgcatcaac 420  
 atgccttatg acacttaagc acacttagtg gagaatcttg gacttgatct ttgattagt 480  
 ggctgaactt tatgt 495

<210> 7464  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<400> 7464

ccaaaaaact cagcttgtca gatccatgct cttctctggg gttggatatgt catcaattcg 60  
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 atgctccata agtctctga ctcttatctt atacactaat tgttgaagta gccacaatt 180  
 tggtagatat cctttcatct atatatattg atggctgcaa gaacttagga ccgaatcgtc 240  
 catgtcttga gatatttgaa attcaaacac tttcatgtta tatttgctta gattttttat 300  
 tatctgtctt gggttcagcgc tgcgagtcac cttaacttgt accaaaataa aagactaacc 360  
 aatttaaact aaaagatata caatatgttt agacctcgta cttatgggtga aacttggttt 420

tagtctcca accttaacat ataagctctg atggaaagga gaaatactcc ccaaaatatt 480

a 481

<210> 7465

<211> 537

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7465

ttctcttttg tgcgactatc tcatcctctt tttcagatgt agaatgaagc ttgacagggtt 60

caagtgtagg tgctgctatt attggaggca cttgaatttg gttgccacac ctcaagggtga 120

tggcactcat atttttcgga ttatgcacag tttgtgaagg caatttttca gaattttggg 180

actgagcttg gttcaactga gtagccatct gccccatctg atttgtcaga ctctgaatgg 240

aggctcttgt ctcttgctga aattgcatat tttggatggg cattttcctc actaactctt 300

ctaacgaaga ttaaagagga gcctcagctg cttgttgtct ttgttgttgt tgctgctgta 360

ttggaggaag aacatatggc ttgcttggac cancatcatt ctggaaagaa aggacaagcc 420

tgtgtgtgtt ggaggacttg ctcatctcan attttgatga ttactccaaa ctggattgta 480

tctgttgctt gaaaggccat aatattatgc tattgttgga tttggtgttg aagggggc 537

<210> 7466

<211> 419

<212> DNA

<213> Glycine max

<400> 7466

tgtagttgag cccttttgac cctggttgaa ccttgaaatt tttgcttcat tgaatcccat 60

atatttattg tcatgtccct cttgaggatt gtttcaagga cttcacgac tattgcctgg 120

aaaaggtaat tctttacctt taagtccttc aacttctgct cctcgatcaa tttgcattgt 180

gcctccgtac gctctattcc atctgccacc atcaatatcc cattctcaat gagatcccaa 240

tattcttttg agcagaaaag attctccatc aacattgccc aatgatcata atgaccatta 300

aaccttggaa ttgcaggctg cacgaaactg ctactccac cttctgccat tcttctcaac 360

tgttctact cgaaagagag aaaaactgca gtttctttct tgaatacact cactgtttt 419

<210> 7467  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 7467

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agcttgcaaa atggaagcaa atatatctct ctatgggtgg cagaataacc ctcattaatt 60
atgttttaac agccttacgc atttacttgc tgtctttttt cagaatcctt aaaaaagtgg 120
ttcacaagat agtctccatt cagagaaact ttctttgggg aggtggcaat gaggcaacaa 180
agatcccttg ggtcaagtgg gatacagtct gtctatttat gaataaaggg gggttaagga 240
ttaaagactt gaacaagttt aatgaggcct tggttggcaa atggggctgg gagttggtga 300
ataaccagaa ccagctatgg gctaaaatct tgatgtctaa gtatggtgga tggaatgctt 360
tattctatgg cagaaacaat acagactcct cttcttggtg gaaggattta aaatctgttt 420
tccaacaaca acataataat agtct 445
  
```

<210> 7468  
 <211> 529  
 <212> DNA  
 <213> Glycine max

<400> 7468

```

agcttttaag ggtatttgac tatttaggtt ttatgtgtac ccaacttata aaggtttagt 60
gttacttgac caaatagggt ttatggatat ttgacaaaat aaggttgctt gactaattga 120
gattacgggt atttgacaaa taagggttta tgggtatttc actaattagg gttatgtcta 180
cttgatagtt aaggtttact gttcgttgac caattagggt ttatgattat tttaaaaagt 240
tggggtttac aggtatttga caacttattg tttacggttc acgggtattg gactaatgat 300
ggtttatgtg tagttgagta attagaattt aatgttactt gaccaattag ggtttaagat 360
tattcgacaa attaagggtta cttgactaat aatgatttag ggggtatttta caaatttggt 420
tttattgcta cttgacaaat taagggtcaag cgggtatttga ctaattagggt ttatgggtac 480
tttagtaatt gaggttatgg gtatttgaca aattagattt atgggttact 529
  
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<210> 7469  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<400> 7469

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tacctaaaag agtcatcggt tcatataaat gttccttttc tttgcttgct tatgattttg 120

ggagtttata cacctgtttg gttatatata tatattttta taacaaaaat ccttctcctg 180

taattttttt tcttttttat gatgaaatgc actagcttgt tgatttggtg tgtttcattt 240

tttggggtca ttttttggtc ttattttggt tgatgtttcc taaaacattt aaatatttct 300

ttttatttag gtttaacaaa atgtcacgtg gtattataat gctcagttta gtggcatatg 360

atatacctaa tactaagttt tgagctttgt ttctatttca tccttttgat ttatattctt 420

attcgggtgc attattaata agaatatgaa ccttcttttc agaattagga ttaacatatg 480

tggaaattaa aataaacaag tgagctaata ttactt 516

<210> 7470

<211> 402

<212> DNA

<213> Glycine max

<400> 7470

ttgagcaact tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60

atcgagacgc tcgaacttga ataccgaagc tctgagataa ttcaaacgac aataactttt 120

tactcggatg tctgattgag acccgtaata tatccagacg ctcgaaattg aataccgaag 180

ctctgagcaa attcaaaaga caataagttt ttactcgtat attcgattga gtcccgtaat 240

atatcgaaag gctcgaaatt gaatatcgaa gctctgagca aattcaaaag acaataacgt 300

tttactcgga tgtctgactg agtcccgtaa catatcgaga cgctcgaaat tgaatatcgg 360

agctctgagc aaattcaaac gacaataact tgttactcgg at 402

<210> 7471

<211> 361

<212> DNA

<213> Glycine max

<400> 7471

agcttcaaca ttcaattttg agcgttttga tatattacga tactcaatcg gacatccgag 60

taaaacgtta ttgtcgtttg aatttgctca gagcttcggc attccatttc gagcatctcg 120



atatattacg ggacttaatc agacatccaa gtaaaaagtt attgtcgttt gaatttgctc 180  
aaagcttcga taatcaattt cgagcgtctt gatataattac tagactcagt cagacatccg 240  
agtaaaatgt tattgtcggt tgaatttgct aagagcttcg ataatacaatt tgcaccgtct 300  
ccatatatta cgggactcag tcagacaacc gagtgaaaag ttatttgctg tttgaatttg 360  
c 361

<210> 7472  
<211> 485  
<212> DNA  
<213> Glycine max  
<400> 7472

ttgaatgctc tattcaatgg agttgacaag aatatcttca tactgatcaa cacatgcaca 60  
gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaacctc ccaagtgaag 120  
atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaatatgaa agaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgac tgccttgga 240  
gaaagaatga cagatgaaaa gctggtgaga aagatcctca gatctttgcc taagagattt 300  
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggt cccttcaaac ctttgagcta agactctctg ataggactga aaagaaaagc 420  
aagaatctgg cgttcgtgtc caatgatgaa tgagaagaag atgagtatga ccctgatact 480  
gataa 485

<210> 7473  
<211> 656  
<212> DNA  
<213> Glycine max  
<400> 7473

tgttgctttt ccgattttct ttatgcatgg acgacaaggt ttattactta taagtcatag 60  
cacatggctc gacttcaaag tcgtaacagt ggccacgact ttagtacttt atgtaggatg 120  
ggagtggcat tctacttcag gagtcgtggg ttatggcaca actttaaaat cgtgacattt 180  
ggcacgactt taaagttgtg tttattaatta ttttttaaaa taatatgtca tatgttaata 240  
ttattttacg gtttttagtta attaaaaatt ttatatgtta taagtaaata ttttgtagg 300

gcttttagtta gataaaaatg ttatatgtta taagttaata ttatttttagg ggtttagtta 360  
 tttaaaaatt tatatgttat aagttaatat tttggttaggg ttttaattaat aaaaatatta 420  
 tatgttataa ggtaatatta ttttatgatt ttactcatta aaaaaagtac tatgttttca 480  
 ggtaatatatt ctgtaggggt ttaagtaatt aataatggct atgttataag ttatattatt 540  
 ttaaggcggtt acttatttaa aaaggctttt gtgataaact aatattattt taggatttca 600  
 ctattaatat tattattttc ccaaaatggt ttaatatatt ttatttaatg aaaaac 656

<210> 7474  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 7474

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 atgtcttcct ctaaattccc atgcaagaat gcagttttta catctaacta ctccaagtga 120  
 agattctctg cagctactat gtcataata actttgatgg tagtcatctt tacaactgga 180  
 ttgaagatct ctgtgaaatc aattccttgt ttctgctgaa accctttcac cacaagtctc 240  
 gccttgtatc ttcttctacc gttagattct tccttgagcc tatataacca cctattctgg 300  
 aacgctttct ttccttctgg caatttagtt aaagaccacg tcttattctt ctgaagggat 360  
 gtcattctcat ctttcatcgc 380

<210> 7475  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 7475

tggcatcaat caccttgctg accaaacaaa tgatgaattt gtggcttccc ataattggata 60  
 caaacacaag gcatcacatt cacaacacc attcaagttt gaaaacgtta ctggtgttcc 120  
 taatgcagtg gattggaggg aaaatggagc tgtcacagca gtcaaggacc aaggccaatg 180  
 tggtaattaa gtaacagaat ttcttttctc agtaagaatc gaaggcagga caacaggag 240  
 tttacaacaa ctcacatggt ctgctcaatt aactgagcta gactccctcg gttaacacag 300  
 aaaattaacc ataaattaa gtgatactat gttctgttct atatattact gttatgatgg 360

cataaataat aatggttaat ctgtaaataa c

391

<210> 7476

<211> 445

<212> DNA

<213> Glycine max

<400> 7476

agcttaacat caatcacctt gctgaccaaa caaatgagga atttgtggct ttccataatg 60  
gatacaaaca caagggatca cattcacaaa caccattcaa gtatgaaaac gtcactgggtg 120  
ttccgaatgc agtggattgg agggaaaatg gagctgtcac aacagtcaag gaccaaagcc 180  
aatgtggtaa ttaaataaca aaaatttttt tatcttatga atcgaaggca cataacatgg 240  
agtttaccac tacttatgtg ttctttctta ccaactgagc ttgactccct cggttataca 300  
gaaaataacc ataatgaaa gcgatccatt ttctttttca tatattactg tgatgagggg 360  
cttaaataat atttgggtaa tttgtaaatt aaccaggatc tggttgggat tttcaacagt 420  
tgccggaaca aaaaggattc tacca 445

<210> 7477

<211> 507

<212> DNA

<213> Glycine max

<400> 7477

agcttagtaa agctaggcac taacaatctc cccctttggc aaattttgtc taaaacatac 60  
ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcaacaa ctttcattat 120  
cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180  
catctcacat gacatcagct ttctgctttt gctccccctg tctccatgct cttactccag 240  
catcttctat cagctactaa tctttttcag gatgtcaaga catctcatgt gacatcagct 300  
ttcccttgct tccatgctct tactgcagca ttttctatca gctactagta gcttacatca 360  
gtaatcatca gcagcagcag tctcccccta aaaacatgta catacaactt cccctcaaaa 420  
tcatgaataa tgcttacatc gtatcctact tctctaaatc ataggtaatg ctttatacta 480  
ctactgcgta caccaaacca tccatat 507

<210> 7478  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 7478

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 aagttattgt cgtttgaatt agctcaaaag ttcaacattc aatttcgagc gtctcgatat 120  
 gttacgggac tcaatcagac atccgagtaa aaagtcattg tcgtttgtat tggctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tattacgagc ctcaatcaaa catccgagta 240  
 aaaaattatg gtcgtttgta ttggctccga gcttcaacgt tcattttcga gcggctcgat 300  
 aagttacggg actcaatcag acatccgaga aaaaagttat tgcgtttga attagctcat 360  
 aagttcaaca ttc 373

<210> 7479  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<400> 7479

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 atataacgag acgctcgaaa ttgaatggtg aagctctgaa ctagttcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgagtcccg aatatatgga tacgctcgaa attgaatggt 180  
 gaatctcaga gccaatcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240  
 taatatatcg agacgctcga aattgattgt tgaagctctg agccatttca aacgacaata 300  
 actatttact cggatgtctg attgagtccc gtaatatatc gagacgctcg aaattgaatg 360  
 ttgaagctct gagccaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 420  
 cgtaaaatat cgagacgctc gaaattgaat gttgaacctc tgagccaatt caacgacaat 480  
 aacttttact cggatggtgt gattga 506

<210> 7480  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<400> 7480

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taaaaaagtta ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcgtctcc 120  
atatattacg ggactcaatc agacatccga gtaaaacggtt attgttggtt gaatttgctc 180  
aaagcttcaa cattcaattt cgagcgtcta gatataattac aggactcaat caaacatccg 240  
agtaaaatgt tactgtcgtt taaatttgct tagctctcca gctttaaatt tcgagcgtct 300  
cgatatatga cgggactata tcagacatcc gagtaaaaag ttattgtcat ttgaatttgc 360  
ttagagattc aacattcatc ttcgagtgtc tcgttatatt acgggactca attatacatt 420  
cgagtaaaaa gttattgtcg tttgaatttt ctgagagctt caacaatcaa tttcgagcgt 480  
ctcgatatat tactggactc aatc 504

<210> 7481  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 7481

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ggtcgaatgg agaatttaga tcataatgaa gaacaatgga ggataagagg gaatgatggc 120  
gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttccttcatt taaaggaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgccac 240  
aactattatg aggaccacaa tgtgaagctt gccgcccccg agttttccga ctatgctctt 300  
gtgtggtgga acaagctaca taaggagaga gcaagaaatg aatagcccat ggttgatata 360  
tggaccgaga tgaaaaagat catgaggaag cggtatgtgc ccgcttggtta ctcaaaggac 420  
atgagatttc aacctccaaa aactaac 447

<210> 7482  
<211> 603  
<212> DNA  
<213> Glycine max

<400> 7482

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tgggctgcag atttcataag caatgcattt agtatgttta cttggtaggt ttaaattttc 120

aataaaagta attaatTTTT ttagaatata atTTTTtatg caaggtcaat gtgagttctt 180  
 gttacacaaa tgtaattcat tttattacca tattacccaa ttcattaata tgatgcagtg 240  
 aatttgcatt aaaaaaatat acttgtaatt atatataata tagaagtttt agcatttagc 300  
 agctcactct ttaacacatt tttatataag aaatTTTtatt atacgttaaa atTTtattaac 360  
 aaatataata gaaaaaagac tcactttaaT tatgatcttt tattaatttt aaacaatctt 420  
 acctaatgca ttcaaaagat tgatttagaa aggatctttg ttaatatTTt tataattatg 480  
 aaggaagtta ttaaactatt atgattgaac tgaatataat aattaaatga cagtcattta 540  
 aaactaaaag tttatacgTt actatTTtata caatatatat gttagtgaag ataaatggga 600  
 tac 603

<210> 7483  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 7483

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 gtttcactaa tcctTTtaaag aattctatat attaagggaT ttattTTTTt aaaatctcaa 120  
 cctaataccaa aataatcatt atttaatttt aaattattgc tTTaacagtg ccactaatta 180  
 tttatggtat ttgatctaaa tatttTaaacta atttataggg attTTtaattt cgactctatt 240  
 aataatgaaa aacattgttc gatcgggaac tcatggagta cttacaccag tTcatgagct 300  
 aatgattatg ataagTTtag agaactatac aacaaatcca ctaaggtaaa tTTtcattat 360  
 catcatttat agagagagag acaattTTga cctataattt tctatcccc acaattgcta 420  
 ata 423

<210> 7484  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 7484

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 aggcaggtaa ggTtgTcata aacaatacaa gattggTtgc caagggttac tcacaacaaa 120

aaggtgtaga ctatacaaaa acctttgctc ttgttgcttg tctagaggca atatacattt 180  
tactcttatt tgcattgcat acaaaaatga gactatatca aatggacgta aaaaatgcat 240  
tcctcaatgg agtaatataa gaagaagtct atgtagaaca acccactggg tttgaaagta 300  
acacttttcc acacatgtgt ttcaactcta taaaacattg tgtggactta acaaagc 357

<210> 7485  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 7485

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gatatcttaa gaaggggggg ggttgaatta acatagtcca aactgtttcc cctaattaaa 120  
aaaatctatt tcacttttta ctcaagttat gaattccctt aatgacaatc ttcttaaata 180  
ttaattcaaa tgaagcaact tgaatatgaa tataaagcaa taataaataa aggagattaa 240  
gggaagagaa aatgcaaact cagttttata ctggttcggc cacacccttg tgcctacgtc 300  
cagtcccaa acaaccgct tgagagtcc actatcttgt aaattccttt tacaagttct 360  
aaacacacaa ggacaatcct tcctttgtgt ttagagatcc tttaccacaa gagactcaca 420  
gactcttaat ccct 434

<210> 7486  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 7486

ttgtccgcaa aaatcactaa aaaccgtttt aaggtcctac tccttgaatg gtactctttg 60  
attttatcgg ataacatgga ccgttcaaaa gcataaaatc aacatgtaac tttattgctt 120  
tagctagaac tacgtaggtc taatttcctc atcgtaattg aggatacgta ggagcaaaag 180  
tcctgctttt gttgaccacc ccaagagatc gttaatggtc caacgcctta atgtttctct 240  
cctttcaaaa acaagagatc gttaatgctc caacgcctta acgtttctct tctttcaaaa 300  
tcaaaagatc gtttaatggt ccaacgcttt aaatgacctt tgttcgggta aaattgatct 360  
ttgcagaaaa agatcaaaac aacttatcca acgtttagtt ctaaaagaac tacgtaagtc 420

tgatttcctc atcgcaattg

440

<210> 7487

<211> 420

<212> DNA

<213> Glycine max

<400> 7487

ttgagaaaat tcaaacgaca gtaacttttt actcggttgt ttgactgagt cccgaaatat 60

atcgagacgc tcgaaattga ataccgaaac gctgatcaaa ttctaacgac aaaaactttt 120

tactcggatg tctgagtgag tcccgttaata tatcgaaaag ctcgaaagtg aatgtagaag 180

ctctgagcga attcaaacga caagtaactt tttactcgga tgtctgaatg agtcccggaa 240

tatatcgaga cgctcgtaat ggaataccga agcttggagc aaattcaaac cacaataact 300

ttttactggg atgtccgatt gagtctcct atatatacga acgctcgaga tggaatgttg 360

aagctctgag caaattcaaa ccgacaatga ctttttactc ggatggccga atgagtcccg 420

<210> 7488

<211> 322

<212> DNA

<213> Glycine max

<400> 7488

agcttctaca ttcaatttcg agcttttcta tatattacgg gactcaatcg gacatccgag 60

taaaaagata ttgtggtttg aatatgctca gggcttcggg attccatttc gagcgtctcg 120

atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttgttt gaatatgctc 180

ataacttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatcgg 240

agtaaaaagt tattgcagtt tcaatttgct cagggcttca gtatttcatt tcgagcgtct 300

cgatgtatta cgggactcaa tc 322

<210> 7489

<211> 527

<212> DNA

<213> Glycine max

<400> 7489

agcttgtaaa aaatgcaaaa ctttaatatc tattaactca aatgtccgat tgagtctgt 60



attatatcga gacactcaaa attgaaaaca gaggtctga ggaaattcaa acaacaataa 120  
ctttttactt ggatgtcaga ttgaagcaat taataattcg agacgctcga aattgaatac 180  
agaagcgctc atcaaatcca aacaacaata aattttgact cggatgtcca atttactccc 240  
ataatagttc aagatctcaa aattgaaaac agaagctctc aaaaaattca aacgataata 300  
actttttact tgaaagtccg attgagtctt acagtatata gagacgcacg aaatttgaaa 360  
acagatgctt tgtgcaaaat taaacgacaa taacttttta cttggatgtc cgaatgattt 420  
ccgtatttta tcaacacgct caaaattgaa taacagaacc tctgagcaaa ttagacaac 480  
aataactttt gactccaatg tgccatttga gtcctttaat aatttta 527

<210> 7490  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 7490

tgaaattgaa taacggatgc tccctagaaa ttcaaattgg cataactttt cactcgaatg 60  
ccagatttag gaacaaaata tatagagacg ctcgaaattg aacaacagat gctctctaga 120  
aatttaaattg gtaaaaattt ttcactcgga tgtagattc aggcacataa tatatcgaga 180  
cgtttgaaat tgaacactaa agctctggtc caattcaaac ggccataact tttaacatgg 240  
gtgtatgatt gagggccatg atgtatcgag atgatagaaa ttgaataacg gatgctctca 300  
tgaaattcaa atggtcacaa gttttcactc gtatgttaga ttcaggaaca aaatatatag 360  
agacactcga aattgaacac ggaagctctg gtccaaatca tatggcctaa acttttgaca 420  
tgcttgaccg attgaggccc atga 444

<210> 7491  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 7491

agcttcatga gagagtcaaa gatcaaattg agaggaaaaa taaaaactat gctaaacaag 60  
ccaacaaagg gagaaagaag gttgtcttcg aaccgggaga ttgggtttgg gtgcacatga 120  
gaaaagaaag gtttccggaa caaaggaaat caaagcttca accaagggga gatggaccat 180

ttcaagtgct tgaaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240  
atgttagttc caccttcaat gtctctgatt tacctctttt tgatgcagat ggagaattcg 300  
atttgaggac aaatccttct cttgagggag agaatgatga ggacttgacc aa 352

<210> 7492  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 7492

tgtaacatta tttgtggagt ttaatgacat acatactggt tattaacttg aaataaccac 60  
tatattttat ggctcttgat tgcgatgaat gataatataa ataagttgag tctttgttta 120  
ccaatggttt acaaagttgg tgcaccccag catcattgta gcaaacatgg gccttggcaa 180  
gctgccacat ccaattacta gtatcatcaa caggaggagt aaccactcgc tttgaccggg 240  
aattatgtcc aacatgaagg aggctaagtt ctatagccac atgcttgaga gtgccacgag 300  
gtgtctataa aaagacggag cgtgtggcat atgactatct accatctaag gca 353

<210> 7493  
<211> 544  
<212> DNA  
<213> Glycine max

<400> 7493

tcatgcagat aagattttat tgcatttagc cacaaatttt attataaata gcaacagttc 60  
tctgatgcaa tatacatgat tatttaactt ggtctaataa taaattgtat taattatgtc 120  
tctaaagtat gaaaataaag ctcatcagat agccaatcca cagctccaca caagttcatg 180  
acaacccttt caaagcttca acttgatagc agtttgaaca tccttatcac ctcggccact 240  
gaagttaacc acaaccttgg ctccattagg aagggttgga cacactttct ctagatatgc 300  
caatgcatga gatgattcca gagctggaat tatgccttca agtcgtgaaa ctctcttaaa 360  
agctacacat acaaaaaatc caaaaaataag atacacgggc aatatctgat accatagaaa 420  
catttacttc ttaccacaaa gaagaggata atataaccat tttcttttaa tgcaatatga 480  
tggaatatgg caagatgtgg tggatacaat ggaattatgt gttagcactt ttttactacc 540  
ccat 544

<210> 7494  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 7494

agcttataag tgaagccttg ggagaggatt tgtccaaacc ctccaacacc agtacttgta 60  
 gtaataaagc tgacactact actactaagg caaggataag atgcagcatc gaccaaagct 120  
 ttctgaaaaa caaatctgta aagggtacca cggaacttct tgaacagcat gtgtggaggc 180  
 cccagagagg gttgccacaa cgtgcaatgg caattcttaa agcctgggta tttgagcatt 240  
 tgcttcatcc gtatgtatgc ctctatctat gtctcttatt aataaatgtc tagctccgcg 300  
 actctctttt ctgcattcta aaaagacatt tggattgaat tgtggccttt ttttgcgtgt 360  
 gatgaatatt tttttagtta ccctacagac actgataaac acatgct 407

<210> 7495  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 7495

ttgaaggctg atttcatttg cgaagtgaat tacaccaatt ggtagccaa tgtggtcattg 60  
 gtaaagaaag caactggaaa atggaagatg tgcattggatt acaccaacct caacaaagtg 120  
 tgtcccaatg atgcctaccc tttgcttagc attgacagac tatttgatgg ggcattgtggg 180  
 ttcagggtgc tcaactttttt agatgcctac tcaggctata ttcaaataca gatgtatcta 240  
 cccaaccaag aaaagacaac atttgtcatt gatagggcta attttttcta taaggtaatg 300  
 actttttgat gcaatcctcc ctatgaaggg actagtcacc agagccatga gcaagaggct 360  
 ccaaaaggat tgagctagag ttgctgaaga agttcctagg gttctcatca atctca 416

<210> 7496  
 <211> 610  
 <212> DNA  
 <213> Glycine max

<400> 7496

tgaaggcaaa ctggatgcat tggttaactt ggtaacccat ctggccttga atcacaatc 60

tgtaccattc gcaaggggtt gtggtttgag ctctctact gaccaccata cagacctttg 120  
cccttccatg cagcaacctg aagcaattga gcagcctgaa gcttatgctg taaatattta 180  
caatagacct cctcaacctc aacagcaaaa tcaaccacag cagaacaatt atgacctctc 240  
cagcaacaga tataaccctg gatggaggaa tcaccctaac ctcatatggt ccagccctca 300  
gcaacaacaa cagcaacctg ctcttctggt ccaaaatgct gctggcccaa gcagaccata 360  
cattctctca ccaatccaac aacagcaaca accctagaaa caaccaacag ttgaggcccc 420  
tccacaacct tccctcgaat aacttgtgag gcaaatgact atacagaaca tgcagggttca 480  
gcaagagacc acagcctcca ttcagagctt aaccaattaa atgggacaat tggctaccca 540  
attgaatcaa caacaagtcc agaaatatga caagctgcct tctaagttgt tcaaaattcc 600  
aaaaatgtca 610

<210> 7497

<211> 517

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7497

tgaaattgaa taacggatgc tcctagaaa ttcaaattgt cataactttt cactcgaatg 60  
ccagatttag gaacaaaata tatagagacg ctcgaaattg aacaacagat gctctctaga 120  
aattttaatg gtaaaaattt ttactcggga tggttagattc aggcacataa tatatcgaga 180  
cgtttgaaat tgaacactaa agctctggtc caattcaaac ggccataact tttaacatgg 240  
gtgtatgatt gagggccatg atgtatcgag atgatagaaa ttgaataacg gatgctctca 300  
tgaaattcaa atggtcacaa gttttcactc gtatgtcaga ttcaggaaca aaatatatag 360  
agacactcta aattgaacac ggaagctctg gtgcaaatca tatggcctaa acttttgaca 420  
tgctngtacg attgaggccc atgatatatc gagatgcttc aaattgagaa atggaagttt 480  
tcgagaaatt caaatgggca taacttttca ctcgaaat 517

<210> 7498

<211> 422

<212> DNA

<213> Glycine max

<400> 7498

agcttcatga gagagtcaaa gatcaaattg agaggaaaaa taaaaactat gctaaacaag 60  
ccaacaaagg gagaaagaag gttgtcttcg aaccgggaga ttgggttttg gtgcacatga 120  
gaaaagaag gtttccggaa caaaggaaat caaagcttca accaagggga gatggaccat 180  
ttcaagtgtc tgaaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240  
atgttagttc caccttcaat gtctctgatt tacctctttt tgatgcagat ggagaattcg 300  
atttgaggac aaatccttct catgaggag agaatgatga ggacatgacc aagagcaagg 360  
gcaaggatcc actttgaaga cttggaggac ctatgacaag ggctagagca agaaaagcca 420  
ag 422

<210> 7499

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7499

agcttagcta cacatacctc tctaatagct aagctcacct ccttgagatg agaagctaga 60  
gcttagctac acaccccta taatagctaa gctcaccacc atgagaaaaa acatgaaaat 120  
aacaaaaaaa agtccttatt acaaagacaa ctcaaatgc cccgaaatac aaggctaaaa 180  
ccctatacta ttagaatggc caaaatacaa ggcctagacg aaggaaaaac ctatttctaat 240  
atttacaag ataagcgggc tcatacttag cccatgggct cgaaatctac cctaaggctc 300  
atgagaacc tangggcctt ccttgatct ctagccaaat ctacttgag tcttttanca 360  
atgcccttgc ggggtgggat tgcattctt cctccacctg ggaaaggatt tgacctcaa 420  
tcccg 426

<210> 7500

<211> 545

<212> DNA

<213> Glycine max

<400> 7500

taccaagctt tgtgccaacc agaataatgg ggacaccagg agcataatgc ttcaactccg 60  
gaatccactg aaaatgaaac cacacatgca atttatcatc gacttttttt ataatgaat 120

tattttctta acatataaca tgatccatac atccttcatt acaggccata cagaaacctt 180  
 ataattatca aaataaataa gaagaaatac acccaaaaaca ctatgaccac aataaattgc 240  
 cacgaagtac ctttttagag acattttcat aactggcctt gcttatgaga gagaaagcca 300  
 gtatgaaaac atcggcacca cggttaactca aaggtcttaa tctgttataa tcctcttgtc 360  
 ctgttcaca agtaacacaa taaatccaga gataacttcc aagctccaac atcacagaaa 420  
 caataatcac gcagcattac cagcagtatc ccacaaaccc agattcacaa tgctcccatt 480  
 gacaaccaca attgcgctga gattgtcaaa aacagtcggc acataatcct gtttttaaaa 540  
 taaaa 545

<210> 7501  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 7501

agcttgtcaa agagagaagc aagttaaaaa ctcctttcaa agcaaaaacg ttgtttctac 60  
 ttcaaaaccc cttgaactac ttcacattga tttatttaat ccctctagaa ctatgagttt 120  
 aggtgtaaat tactatggct tagcaatagt ggatgattac tcaagggttca catggacttt 180  
 gtttttgaaa acaaaaaatg aagcttttga ggcttttcgc aaacttgcca agatgattca 240  
 aaatgaaaaa ggtcttaaca ttgtttcact tggaagtgat catggagggtg aatttcaaaa 300  
 tgagtccttt taaaactttt gtgaagaaaa tggaattcac cacaattttt ctgccaaga 360  
 acacctcaac agaatggtgt tctggagagg aaaaataaat cgctagaaga aggtgcaa 418

<210> 7502  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7502

tactcgagct tgtagcatat tcaaacgacc ataactntta actcggatgt ctgattgagg 60  
 cccgttatat atcgagacac tcgaaattga aaacagaagc tctgaggaaa ttcaaacgac 120  
 tataactttt tactcggatg tctgattgtg tcccgtagta tatcgtgacg ctcgaaattg 180

aaaacataag gtctgagcaa attcaaacga caataacttt ttactcagat gtccgattga 240  
 gtcccgtaat atatcgagat gttcaaatt gaaaatagta gtccttagca aattcaaaac 300  
 ataataactt ttactcgga tgtccgattg agtcccgtag tgtatcgaga cactcgnaat 360  
 taaaacagaa gctctgacaa attaaa 386

<210> 7503  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7503

nagcttctgt tttcaattnt gagaatctcg atatattacg ggattcatta ggacatccgg 60  
 gtaaaaagtt attgtcgttt gaatttgctc agagcttcta atttcaattt tgagcgtctc 120  
 gatataattac gggacttaat tggacatccg agtgaaaagt tattgtgggtt tgcattctgt 180  
 acgaactttc gttttcaatt tcgagcatct cgatatattg cgggactcaa tcggacatcc 240  
 gattaaaaag ttattgtcgt ttgaatttgt caccagcttt tgttttcaat tttgagtgtc 300  
 tcgatataatt acaggactta atcggaaatc cgagttaaaa gttattgttg tttggatatt 360  
 gtacgagact ttgttttcat tntcgagcat ctcgatatat tacgggactt aatcggaca 419

<210> 7504  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7504

tgtgcgtaat anaacttatt tgacatcaaa gatagtatta tgataacaac ttctgtgaaa 60  
 taacaaattc gtgtctctta atctgtatta gaacttgcag ttggtgatac ttagaaggct 120  
 catatggtgg gaacctgatt tctttgttaa tttggttgta tagctagttt cttgggaaga 180  
 aggagggtat ctgacatcag ataaaccaat gccaaaggga gagattgtag ttggaggatt 240  
 tagtgtgaca gctggttact ttaagaatca agaaaaaact aacgaagtgt tcaaggtaat 300  
 ttcccaagtt acagttgtat gcatgacatn tttccttttt aatttccttt aactgctctt 360  
 annatctgtt ttgcatatta ctaaagccac tcgtacatnn tttttt 406

<210> 7505  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 7505

tgtatgatgtc acttaagaac ataggtgcaa cggtatgctc ggagaacttg gctggtaatg 60  
 ttttgaagtg agtatacttt gtcaaacaat ctacaatcac ctaggtaatt gacttcccct 120  
 gtgacactgg taagtgtgta ataaaatcca tagagaagtc tttccagacc taattgggaa 180  
 taggtaaagg ctataaaagg ccatgctatt tgtgattggg agacttatgc ttttgacaaa 240  
 tctcacaggt ttgcacatac tccttgacat cccgacacat gtgtggccat gaaaaggaag 300  
 ctgccaaaca tataagcatg cctttaacac ttgagtgtcc tcctgcaagg gtggcatggc 360  
 aatc 364

<210> 7506  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 7506

tgagttgctt gttgacaagg atctcaagac taactatgac aggattgagc ttgaggaaat 60  
 agttcaagtg gcactcttgt gcacacaata tcttccgggc cacaggccca aaatgtctga 120  
 tgttgtacgc atgcttgaag gtgatgggct tgcagagaaa tgggaagcct cacaaagtgc 180  
 tgacactacc aagtgcaaac cacaagaact ctcttcatca gataggtatt ctgacctcat 240  
 tgatgactct tctttgttag tccaagccat ggaactctca agccctatga tgtgaacctt 300  
 acggggcgga tcgcttgata caggctacga atatttggat gacgc 345

<210> 7507  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7507

gctaataata tgtcaaaact gccaacgaca cagggtatg ggtctgatga ggagtgaatt 60  
 ctgaaaactc aatgttcttc tggctcggat atatnttggt ntgttttttt gataagcaaa 120



tgttttatac tttgttngaa cttatgtcac ttttttcagc ttggaattct tttgaattcc 180  
 ttgaagagaa tgctcgacag cttgcgccct aggattgaat ccagattcaa gacatggngt 240  
 tcttgcttgc cacatgttgg aaacacgaca cctgggtgag cgactagtga ggtgacagtg 300  
 atgctgagag caaag 315

<210> 7508  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7508

agcttgctaa atggaagcaa aaaagtctat caatgggggg tagaataacc ctcattaatt 60  
 cagtcttaac agctntaccc atctatttgc tgtccttctt caggatcctt aaacatgtgg 120  
 tgcaaaagat tgtctctatt caaagaaact ttttatgggg aagtcacac gaggccaaca 180  
 agatcccttg ggtgaggtgg gacacagttt gcctccctaa gagtaaaggg gggtaggga 240  
 ttaaagattt gactaaattc aatgaggctt tgcttggcaa atgggggtgg gagctggcat 300  
 ataatcagaa tcaaccatgg gccagaatt tattgtctaa atatggtgga tggaaggatt 360  
 tga 363

<210> 7509  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7509

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60  
 tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tntcttcatg 120  
 cctcttaagt gcagatgtcc aaatcttga tgccatatat tgacttcac ttctttggag 180  
 actagacatg tggaggagta actgggttct tgagggtgac ataggtaaca gttgtccttt 240  
 gatctgctgc ccttcattag gacttcactc ttctcatttg tcaccaagca ttctgactnt 300  
 gtgaagttac attgagtcct tcatcacaca actgactgat gctgatcaag ttgcagtc 360  
 gtcccttcac cagcagtact 380

<210> 7510  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 7510

tacacagga tcaactgcat taaccgcata accatatgag agcaatgact gtgacgcgaa 60  
 cattgataat actattggac ggaaaagctt gttccaaacc ataggaggaa tcatttagtt 120  
 tgcaaaccat aggactttga aacacttaag acaaagtgt tctggaagca tcacatgaag 180  
 tagcttcttc aatgtcacca tttagaaaaa caggcttaac atccatctga tgtagctcta 240  
 aatcacaagg agctacaagt ggcattatt 269

<210> 7511  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7511

tctaaactnt gtacaagaat gaagctctga taccacttgt tttcaagtgg cctcagatat 60  
 cttagaagg tgggggttgaa ttaagatatt ccaaactttt ctctaatta aaaatctatc 120  
 ttactcttta cttagttat gaattccctt aatgacacat cttcttaaatt attaattcaa 180  
 atgaagcaac ttgaattatg aatattaagc aataatcaat aaaggagatt aagggaagag 240  
 aaaatgctaa ctcagtttta tactgggtcg gccacacct tgtgcctacg tccagtcctc 300  
 aagcaaccgc cttgaga 317

<210> 7512  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7512

atcgtgtgc tagcaagcag tatatcatcg acatataaca ccaagaatga gtatttactc 60  
 ccgctaaact tgtggtatac acaatcatca actgcatttt ccgcanaacc atatgaggta 120  
 atgacttgat ggaacttgta atactattga cggaaagctt gtttcaaacc atagatggat 180

ttattagttt gcaaaccata atttgagtca cttaatacaa agttttctgg ttgcatcata 240  
tg 242

<210> 7513  
<211> 416  
<212> DNA  
<213> Glycine max  
  
<400> 7513

agctttctgc aggggaagcta agtgtgaagt atgcaatcct gcataggatt ggcaactgcc 60  
actgggtacc caccaatcat acttccactg ttgccacagg tttgggtaaa tttctgtatg 120  
ctgttgaac caagtccaaa ttttaattttg gaaactataa ttttgatcaa actattaagc 180  
attcagaatc ttttgctgtc aaattaccca ttgccttccc aactgtattg tgtggcatta 240  
tggtgagtca acatcccaat attttaaaca acattgactc tgtgaagaag agagaatctc 300  
ctctatccct gcattacaaa ctgtttgagg ggacacatgt ccagacatt gtctcgacat 360  
caaggaaagc tgctgcttca cgtgctgtat ccaaggatga tttgattgct gaactc 416

<210> 7514  
<211> 356  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7514

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ctcgagacgc ttgaaattga ataccgaagc tctgagcaaa ttcaaacgac aataactctt 120  
tactcggatg tcggattgag tcacgtaata tgtcaagacg ctcgaaatag aataccgaag 180  
ctctgagcaa attcaaacga caatacctat tgactcggat gtcggattga gtcacgtaat 240  
atctcgagac gctcgaaatt gaataccgaa gctctgagcg aattcaaacg acaataactt 300  
tttactcgga tgtgcgattg agtcccataa tatgacgaga cactcggaat tgaata 356

<210> 7515  
<211> 320  
<212> DNA  
<213> Glycine max

<400> 7515

agcttgatta tactgtagcg gcacctaggt ctctaggcgt gatcccggtt atatgtgtac 60  
cctgcgtagaa agtggcatgc gctaagtctt gcacacagac tacaagccgt agacaacact 120  
tgcaaaacct gtggtgccga cagagtgaac cttctcccat tagaggcgtg gcgctctctg 180  
accactatac aagacggaga cctcgtttgc caactgcatt aacgaatccg tcaacacgaa 240  
caccttgctg acgtaccgcc cgatgctctg ggatgctgct agaccatta ttgtcaagtg 300  
gatgtcttgc acgcgcttat 320

<210> 7516

<211> 347

<212> DNA

<213> Glycine max

<400> 7516

tgtctctcaa cactacaaag ctattcacct ttaatccttt tgtaaagata tcttccagct 60  
gcatttcagt gctgcaatac ctcaaacca gctgcttctt gctcaccttt tccctcagaa 120  
aatgaaatct agtctcaata tgttttgatc ttccatgtgc tactggattc atggccaaac 180  
tgatagtaga tttgttgtct acatacaatc taactggcct ctgaatttcc accttcaatt 240  
attcaagcaa gaagtccaac ccacaaggct tgacatgtag catagcaaga tgctatgtac 300  
tctgcctcac atgaggataa agccaccact tgttgtttct tggaaca 347

<210> 7517

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7517

ntagcaactc tttctttntg tttagtcaaa acctctaattg ctcttaattct ctctcatct 60  
aaatcaacca actcatctaa catcattttc caataatggg cgattggaat gtccatttgt 120  
ttttgtacct tggctgattg caaatgtatt tcgaccggaa gtacagcatc atgcccataa 180  
gtcagtcgaa atggggtagt attagttgat tccttangag aatttctaca tgcccataga 240  
acttgatcta acgttttatt ccaatttctt ggcttttggg caatgtgttt tttaatcaag 300  
ttaattacaa tcttattggc tgcttcgaac ctgaccattg cttgcgcgta atatggtgtt 360

gagggttaata atcgaaagcc agtttttttg

389

<210> 7518  
<211> 415  
<212> DNA  
<213> Glycine max  
<400> 7518

agcttgtctt aaagaaaatg atagaccaat atttgtatct tggaattggc taattaaaaa 60  
caagtggagt ggttcaaaat ttcaggtaaa gttatcttat tattttgaac ataatttttt 120  
aatagtttta tgcttataat ataaaatcat ttatactttg atgtaagaaa gaagtttgac 180  
aaacaaagct aatcgaagca agtaagaaat aaaatcaatt attggcacia aatcaatcat 240  
gccaaaggca tttgaaatgg taacatcttt taatatttta tattcatttt tttacaagtt 300  
atataataat aactcttttt ttattttgcg aattttttat atgatatatg aaagggttgg 360  
gaaatttata taaaggcatc atgccttaca ttatatatgg tttatattaa ttaaa 415

<210> 7519  
<211> 400  
<212> DNA  
<213> Glycine max  
<400> 7519

agcttcttat ctgattctct ctgaaaatat attttcagat ttgttttcat tcttatgtga 60  
ccaaagcaca gcttcaaatt tggccacttt agatttatca cgcaatcaaa taaaggggca 120  
actgccagat tgttggaat cagtaaagca attactgttc cttgatttaa gcagcaacaa 180  
attgtcaggg aagattccta tgtccatggg cgcccttggt aatatggaag ccttggtttt 240  
acgaaacaat ggtttaatgg gtgagttgcc ttcttctttg aagaattgca gcactttatt 300  
tatgctggac ctgagtgaat atatgttggt ggtccaata ccatcatgga ttggagaaag 360  
tatgcagcaa ttgataatct tgaacatgcy aggaaatcac 400

<210> 7520  
<211> 417  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 7520

tatagttatt ggagggagaa taaaacaatc caaatcaat tgtacccttc aagtaacgaa 60  
gaattctttt tgcggctctt agatgaggag aggtaggagc ctcgtaaaag cgacacacaa 120  
ctcccaccgc atatagaata tcgagccttg tattggttag ataccttaaa cttcccacaa 180  
gactottaga gaccatggag tctaccttct ctcttctatc aaactttgat aacttcaagc 240  
caccttccat aggtgtgttc acgggattgc aatcaagcat attaaatttc ttcaaacactt 300  
cttttttgta gctgtcttgt gagacaaaga taccattctc cgtttgcttc acttncattc 360  
ccaagtaata tgacatgagt cccatatttg tcatatcana ttcacgagac atgaact 417

<210> 7521

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7521

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taagtgactg cacccttttg gggctcagaa gctcaaggac acatattttt cttttgtgtt 120  
tccagctntc tccataggat gcaaaaccaa tgtcattaca tccatacagc aaggtttttg 180  
ctgctgtggt tttgggtcgg tttgagaaag ttatgtcgtg agttttcatg atttcctga 240  
ccgctctgag agatgaaacc accaaggctc gagtctgccc caactgcaac aacatcagag 300  
aaccatgctt ttgtgagagg gttctaagag aatggatgg caatttgctt agttgatg 358

<210> 7522

<211> 308

<212> DNA

<213> Glycine max

<400> 7522

cgcttgagcc aattcaaag acaataactg tttactcgaa tgtctaattg agtcccgtaa 60  
tatatcgaga cgctcgaaat tgcataccga agctcttagt aaattcaaac gacaacaact 120  
tttactctg atgtccgatt gagtcccgtg agatatcaaa acgctcaaaa tggaatgtgg 180  
aagctctgag caaattcaaa cgataataac ttttaactcg gatgtctgat tgagtcctgt 240  
gatgtatcga gacgctcgaa attgaatacc gaagctctga gccaaagttca acgacaataa 300

ctttttac

308

<210> 7523

<211> 347

<212> DNA

<213> Glycine max

<400> 7523

agcttctgta ttgaatttcg agcgtttgtt catataacag gagtcaatca tacatccgag 60

ttaaaagtaa ttgtcgttcg aatattctca gagcttccga attcaatttc gagcctctcg 120

atatattaca agacttcatt ataaatccga gtaaaaaagt tattgtcggc tgaatttgct 180

caaagctacg gtattgaatt tcgagcgtct tgatattatt aaaggactcc atgagacatc 240

cgagtaaaaa atttattgtc tgtagaattt gctcaaagct tcaacattac atttcgagcg 300

ttgcgatata ttaccggact caatccgaca gtcgataaaa aattact 347

<210> 7524

<211> 337

<212> DNA

<213> Glycine max

<400> 7524

gggatccttg agtcacctgc ggcataaagc ttcttacata gtccgccttt gctttatctt 60

ctttatgctt aaaaacagaa acattaggca taggcaaaag atcaagagga gttagtgggt 120

taaaaccata aacagcttca aaaggagaac aattagtggg gctatgaaca gctctattgt 180

aagcaaattc aacatggggg aaacaagctt cccaagtttt taagttcttc ctcaaaactg 240

tcctaagcaa agttcccaaa gtctatttaa caacttcgt ttgtccatcg gggtgtgggt 300

gacaagtgtg tgaaaataac aatttagtgc ccaactt 337

<210> 7525

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7525

agctntgcat accccgagga tccattatga aattacttgt gaaagagagc catgagggtg 60

ggctcatggg ccacttttggg atagacaaga cccttgtctt actcaaagaa aagtttttatt 120  
 ggccccatat gaagaaagat gtccataagc attgcactag gtgtgtggct tattttacaag 180  
 ccaagtctag ggtgatgcct catgggctat acacaccatt acccatctgc acccgtggta 240  
 gacattagta tggactttgt ccttgggctt cctataatcc gaagagggtg agactctatc 300  
 tttgtggtgg tggataggtt tagaatgata aaagtgggtg ataggaacta aacttctttt 360  
 ctctaccact tgtcatccac aaactgatgg gcaaacaag gta 403

<210> 7526  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7526

agcttagagg tttgtctagt tctcatcttg gatgattctt ccgagagttg agggatttca 60  
 nggatggtcg taaactatta atcttactta ataattcaat gttgctatca cctatctcct 120  
 ccctagggga tttttgtttc ctaagctctc taaatttttg tttggctttt tcgctaacct 180  
 ttagagtgcg tttggataaa gaattttaac tgaggaaagt aatttattag agaatttgaa 240  
 cttctgtaat ttagaattca ttgtttggat gctttttatg aaanattaaa attttggatt 300  
 ttaaacagaa tttaaact anaatctgga attcaatt 338

<210> 7527  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 7527

agcttccttg agaagctaga ggggtggggg acacacaccc ctccaatagc taagctcacc 60  
 cctttgccaa aatacttgaa aatacaagaa agtctctatt acaaagacta cttaaaatgc 120  
 cctaaaatat aaggctaaaa tcctatacta ctaaggtacc cttaacttgt agggcagggg 180  
 gcccttaatt ttaggggtac cctacaaacc taaaaatgcc aaaatacaag gcccaaaaga 240  
 aggaaaacct attctattat ttacaaagat aagtggctca tacttagtcc atgagcctaa 300  
 aatttaccct aaggcacatg agaaccctaa ggctttctcc tgcacttttg gctcaatctt 360  
 cttgtagtct tctatccaat gcccttaagg taggattgca tcatcc 406



<210> 7528  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7528

tatgctacaa acattataat agacctcctc agcaacttat ccaacaacaa cagaataatt 60  
 atgacttttc aagcaataga tacaatccag gttggaggaa tcatccaaat ctgagatgga 120  
 caagtcctcc acaacaacaa cagcttgctc ctctttacca gaatgttgct ggtccaagca 180  
 agccatatgt tcctcctcca caaaaaatac aaccaacaac tgaggctcct cctcaacctt 240  
 ccttagaaga gttagtgagg caaatgacca tccaaaatat gcaatttcag caagagacaa 300  
 gagcctncat tcagagtctg acaaatcaga tggggcagat ggctactcag atgaatcaag 360  
 cttagtccca aaattatgac 380

<210> 7529  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 7529

tgtaagggct tgggtggcaa atgatagtga gactcaactt ggataccaac cttgtgctac 60  
 aacaattgca acaagaccca ccatccacaa tatgagaaca atttttgttt aaaaccttgt 120  
 atcttgatg aaagatgttc tctctttggg tttgggttag gtcacaggat tgactcccaa 180  
 ggagccttct caccattaga agatcacctt cttcaatatt ctcatcacc ttggtttcac 240  
 cctcacttcc acttgaggaa ggagaagaag tttcctcctc ttgggtacta tagatgtctt 300  
 gaccctcat gatcatggtt ttctttgtgg ggcattgaga agcaatttgg cttttcccaa 360  
 tacatttgaa gcacttgatg ttactagtgc tatctt 396

<210> 7530  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7530

ntaagaaaag tcaaacgaca ataactttta actcggattt ccgattgagt cccgtaatat 60  
acgagacgct tgtaattgaa aatagaagct ctgaacaaat tcaatcgaca ttaacttttg 120  
actcggatgt ccgattgtgt tccgtaggat atcgagacgc tcgaaattaa aacggaagct 180  
ctgagacaaa tcaaacgaca ataactttta ctcggatgtc tgatcgagcc ctgtaataata 240  
ttaagacgct caaaattgaa acggaggctc tatgaaaaga caaacgacaa taacttttga 300  
ctcggatgtc tgattaagtc ccgtacgata tcgagacgct cggaattgga aacggaagct 360  
ctgagacaaa tcaacgacaa tacttt 386

<210> 7531

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7531

agcttgtag cttgatgact tgtcagaatc aatttggtga ctagcatcaa atcagagaat 60  
taaacctgga catcttttag aaatgcttgc tgaattaaga caggcagaaa tctagtgtct 120  
ccatttgga caaaaaccca ttctttgcag catataatcc aaaaaaaccc atgagactga 180  
gtcataggcc ttttcaaaat ccaccttgaa aaccatagct ggccttttgc ttctacaagc 240  
ttntcaatc acctcattaa gaactagat gccatgcagg atgtgtctgt tttttatgaa 300  
agctgtctgc ctctcatcaa taagaccaa tatcacttgc ctcaatctat ttgctaataa 360  
cttagctatc accttgtaga tacat 385

<210> 7532

<211> 202

<212> DNA

<213> Glycine max

<400> 7532

tccattgctc aatttcgagc atctcgatat attatgcgcc ttaataggac ctccaagtga 60  
aaatttatga ccatttgaat tgctcaagag cttccattgt tcaatttcga gcgtctcgat 120  
atattatgca cctgaatcgt acctccgagt taaagggttaa gaccatttga aaatcttaga 180  
gcttccattg ttcaatttcg ag 202

<210> 7533  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 7533

atattttcaat ttttattaaa ttattgcaat aagaaggaaa tgttttgtaa aaataaatac 60  
 tactaaaaat tctattatta atataattaa tattgatgtt atgaagatca attttctcct 120  
 atattttaata ccattaatta ataattaatt tataggatga aatatttaca atgttatcta 180  
 attattttatt ttattttttt aaatacataa ctacacattaa attaaaatta tgacagtaaa 240  
 aaggtgttct cttattgctt ttagaatttt aggtttgaaa ttatatcgac ttaataaaaa 300  
 tataacaaat ttaatatatt gctgaaacta atttcccgta ttccttacac actttggtat 360  
 agaaactttt a 371

<210> 7534  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 7534

ttatcaaagtg gatttaaaaa gtgcattctt aaatggcttt attcaagagg aagtatatgt 60  
 agatcaaccc cctagatttg aaaactcggg caagcctaata catgttttta gattaaaaaa 120  
 ggcgttatgt ggcttaaaga aagcccctag ggcttggtat gagcgtctga gtaagtttct 180  
 tttagaaaag gatttcttag aggcaaagta gaactactct tttcataaag agaaaattac 240  
 atgatatttt attggtcaat ttatgttgat actattattt ttggatctac taatgaatta 300  
 ttggcaagga attctctcat gacatgcaaa atgagtttga aatgtcaatg atgtgagaac 360  
 ttaat 365

<210> 7535  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 7535

ggggcacgaa atttatgcct caaatgatgt atgaactttg aagtgttaatt tctcaaatga 60

tcgaatttga aaaattgcac acacaagacc tttatttata gcctaagtgt cacacaaaat 120  
 tggaggaaaaa tttgaattta cttgaatttg aatttgattt gtggagccaa atttgaacc 180  
 aaaatttcac tattatgata gtgaatttca gctatggttt agcccactaa tccagatcaa 240  
 g 241

<210> 7536  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 7536  
 ttatcataga ttggcatgtt attttctttc atttgtgagc cctaaagttt ggggtatgtg 60  
 aattttgtga atttggttgg tcaaggccct caggtcattg ttgtaggacc tactgattct 120  
 ggaaagagta ccttgctgag gatgcttctt agtagggcag ttaaacaagg gtggaagcct 180  
 acctttggtg atctggatat tggccaaggg tctataacaa ttcctaaatg cattgccgcc 240  
 actccaattg aaatgtcaat cgatcttggtg gaaggcattc cacttgaaaa gcctcttggt 300  
 tactattatg gg 312

<210> 7537  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 7537  
 ttcccccatc gccacgaag tcacgcacct cttctgggtt tcctttcaaa ttcacgcaga 60  
 cgaagaatac aatgcaactg tcaacaaaac catgctactc aaccttctaa ctgccctgaa 120  
 atctttcacg acatcccggt tggcccatgt aacgggccaa accggaacca aacactacat 180  
 gggcccagtt ttogaccggg ttacttcacg caacttatct ggcaccaccc accctttgac 240  
 gaaaacatgc caccggtccc ttaacaaact tctactacgc gctcgaggac ctggatgctt 300  
 cttagcgcgc togtgacgt ac 322

<210> 7538  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 7538

actcagcttg atgatttcta tggcatatga acaaccttca aaacatccat tggcatcttt 60  
tcgtttcaaa tgggtgtacaa aaacgtgtgc tatctaccaa tggagttaga actaaaaact 120  
cattatgtga ggattgatgt gccattatct tctctatctt cttaaccctt tttgcaccat 180  
tttaattact gatttgtctt aattgggtata ttaattatgc atttttatca tttgggtcta 240  
ctggattaat tttgtgtttt aattaatttc acgagaatta taagcaattg ggcttgaatc 300  
caaaattggg cttagacttg aagaaagcag actattttat tctaccaaat tttatcttat 360  
cttgatttta tcttatctaa atattattta aaattgatct catctagata ttatttcac 420  
taaactctatc ttaactaaaa ttatttatct at 452

<210> 7539

<211> 475

<212> DNA

<213> Glycine max

<400> 7539

agctttctat ctcttcttta ataaagattt ggtggttagag accccaacta gtggttctgt 60  
gttaacttct aatgtgtgtt tggattgtcc tgtggaagtt tctggtaaaa taattatgat 120  
tgatctgatt tgtttgcctt tgagccaaat tgatgttatt ctaggaatgg actgggtatc 180  
ttccaaccat gtcttggtta actattttga taaaactatg gtgtttgatg gttttggagt 240  
gagtaaagat atgatgttca tctctaccaa ccaagttgtg tgatgaggac atgaccaaga 300  
gcaagggcaa ggatccactt gaaggacttg gaggacctat gacaagggct agagcaagga 360  
aatccaaaaa agctcttcaa caagtgttgt ccatactatt tgaatacaag cccaagtttc 420  
aaagagaaaa gtccaagggt gtgagttgat gagaatcctg aaactggcca aatac 475

<210> 7540

<211> 608

<212> DNA

<213> Glycine max

<400> 7540

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cccagacatc gtcattaacc tcccaccct ctcacaacac ttcagcagcg cgtaaagctt 120

atcagctacc ctaatctcat tagtagaaga atcttaggtc tgggactgat gttgagactg 180  
 cttggaaaga tggaaaaggg tgaaggatat ctgttataat tgttataggt ggaaaaaaat 240  
 gctaaaatta atagaattta tgtgcaatca gctttttttt tcaaaggata catattgtcc 300  
 agtcagggtat attatctact ctactgtgct catctttatc aaacagaaca tgaaactgca 360  
 attttaagtg agaaaggcca cgaatatatt tctaacaca tgggcaaaca ttgtatatat 420  
 ttcataaaaa ttatcgcgta taaaaatgat tgtcattaga gtggtcgtaa ataacaggaa 480  
 ttctgatccg ctgatattat gtataatatc tatgaacaat acaagtgttt aaaaaaatat 540  
 taatgatgct agtattaaaa tttaaaaata ttactgtctt ttatcatttg attaatgatt 600  
 ttcaatcc 608

<210> 7541  
 <211> 543  
 <212> DNA  
 <213> Glycine max

<400> 7541  
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 aatctcttgc ttctatgtgc accatgagaa aacccctaag cctaggctga aacagtatcc 120  
 taaagtgtc ttcatgtcat caacagatac aacccaatca ctatcagaga atccatacaa 180  
 cttgaattct taacacttct taaatttgac accataatct acaatgcatt tcacttgcac 240  
 agtgcacaaa acgagacaag agacttaca caaatagagt gtctggcctt gttgcagtga 300  
 gatacattag acatccaatc aagctcctat aatatccttc atcaatttta tcagcaccat 360  
 cttgcttgct gaacttctcc ttttgattca taggggagct aacagatttg cattactccc 420  
 atttgaaaac ttctttaaaa tttcttttgc atatttcttt gacagaaaaa cactttgttc 480  
 taactttgct tgatctcaaa tttcagaaaa taagtcatga gaaccagatc agtcttttaa 540  
 aag 543

<210> 7542  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 7542

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 aataggaagg gaattcccat tgaagtaaca aaagggttgg ccaagaaaaa taagttaaaa 120  
 agtcttttac aagaaattta ctctcttggtg atcgattacc aaaggatgta gtcgattacc 180  
 agtggccaca acttgattta cacagctatt aaaatttgaa ttcaaaattt gccttggtgtt 240  
 atcgattaca catatatggt aatcgattcc caccgtttct gaacgtttta tttcaatttt 300  
 taagcttgta atcgattaca catatactgg aatcgattac caaacagag tttcagagaa 360  
 tattctcaac agtcacatct ttttatgtgg ttcttgaatg gctatcaaaa gcctatatat 420  
 atgtgacttg ag 432

<210> 7543  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 7543

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 attagttatg ttttaagtat ttggtactta gttaattatg actgatcttg gtgtctttat 120  
 tttgcactta gatgcttatg ttttatactt agacttggtt attttgtgat atatgactaa 180  
 gtggtttgca tctcaatttg gttttattaa aattatgctt tatgtatggt tttagaatct 240  
 tttatgtttg ttttaciaat tatgctttgt gtatgattaa attattcatg ttttacgcac 300  
 tttggcctat ttgatgttgc caaaggggga gagaaaatgg gtattttaga aatcaagata 360  
 ttatattttc aaagctttta aattaagcat aaattcaaaa agaaaggggg agaaagagat 420  
 tagtgaactg tataacaaaa cttgtatgta ttctcttgat ttcaggat 468

<210> 7544  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<400> 7544

agcttttaat taaagaataa ttccatgctc atgggtgatg acatgaatgc aaccatagta 60  
 atcagcaact tgaatgtcat ggattgagca aatgttacia tgagtaccat tgttggtatg 120  
 attttttttt tcaaccattt ttctatactt tactattgot atttaataag caaatgcatg 180

tttttctttt catttgtaga gcatgttcta ataataattat ggttggtctt gtaggtgggg 240  
 atgggggatgt ttatagtcca agatatttgc ttccaaaacg gtagggcca cgtagaaatt 300  
 gcaagtagta gctctctact tatgcataga tatatccatc ataaaccgtt gtggcattct 360  
 ggggtaacaa gacattcttt attccaatgg aagagacaaa tttattgaga ctcttttctc 420  
 aacaatacca ctgattttat ctttgaaacg tatttggtgt gtttcaaaat tatctttgga 480  
 gatgtagttg ttgttttaat gggacttttt aagtcgcat ggtaa 525

<210> 7545  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <400> 7545

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 tctcagagct tccgttttca attacgagcg gctcgatata ttacgggggtt gaatcagaca 120  
 tccgaggaaa acgtttttgt cgttagaatt tgctcagagc ttttgttttc aatatcaagc 180  
 gtctcgttat attacgggac ttaatcgaac ctctgagtta aaatttaatg gggtttgaat 240  
 ttgctacgag cttctgtttc caattacgag cgctcgata tactacggga cacaatcgga 300  
 catccaagat ataagttatt tttttttgcg tttgctcaga gcttatgttt tcaattctga 360  
 gcatctcgat atattacgag acacaatcgt acatccgagt aaaaagttat tgttggttaga 420  
 gtttgaaaag agcttatgtt ttcaattacg agtgtctcaa tatattacgg gtcacaatcg 480  
 gaca 484

<210> 7546  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
 <400> 7546

tctgggtggga catcttgact tgctgtccaa tctgacattc accacagatt ctgccttctt 60  
 ctatttccag attgtaggac ctcggttggt gtcttatctc caccataatg gccgccacat 120  
 ggtgagtagg gacaatgcca taatatgttc ttggcctcct cctttgtcac acatcttctg 180  
 agaagattgt cagctcctat cttgaacaag tatggatcat cccatatgta agatcgagca 240



tcattgaaaga atttatttct ttgctggcaa gtcagggtact tccgaatgat tcccgtctgt 300  
 ttgaagttgg ccaaatacacc aaaccaaggt ctttcattca ccatgaacat ggattcatca 360  
 aggaattcat ctgtgattta tgcttctttt gaagtgactt actcaataac caatcatgat 420  
 aagtggcacg ctacaacata ttcaaaatcc tttttatctc cgataaccaa atcaaatcc 479

<210> 7547  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 7547

agcttatata taacaactaa aatataacta aaaatttaaat taaaatatct gtcgattttt 60  
 ttttgattaa aatatattga tagtgtaaag ttgtttttta aaattatttt aaaagttgta 120  
 ttttttggtta catagcatga aacttaaagt tatattttaga ataatttttg aagcgataaa 180  
 aaatgattat ttttctttat agaaaatgag tcgggtcaca taaatattta taaaatttga 240  
 cagttgcact gtgatattgc atatagtagc tttttaaccc agtttaatta tttagatttg 300  
 gatgtggtcc tctgatttcc aagaccact gtattgtttc cctttgtact cttctccctt 360  
 ataacctgcc tgccttttta tttttaattc caaccattta ttattaaata gcgctcccc 420  
 tccccatttt ttttttc 437

<210> 7548  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 7548

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 agcgggtgaa ccataagctg aagtttcttt tggtgaggta gccctggaaa agcagagcgt 120  
 ttggaatgat ttcgtaaatc tcagagaact attgggaaat gctggtgaaa acacgaatgt 180  
 cacgaaaata taaatttgaa taacgaatgt acagggccgt gtgaagcaac ggtcgaatat 240  
 gccttggttc agtagtgaac gcgctattaa tgataagtga ttcgtttggg cacgttcaga 300  
 tatcactagc tgctacaatt actctagcat acaaatgcc agcttgcccc tcatattttc 360  
 aaactgattt gcattcacag cctttgtgaa aatatctgct atttgatcct cagtggcaac 420

atgcttcagt gcgatcactt tat

443

<210> 7549

<211> 555

<212> DNA

<213> Glycine max

<400> 7549

agcttgtcag gttcagtttc aattaagctc ttggggcatc ctatggactg agcgaaaagg 60  
ctcgggtcat caaatactgc acatctttta aagcacaaaa cgaggatcgg aacctcaacc 120  
ctacgttctt tttaaaagac tgcaatgaga aaattacaga ggacaggaat ccctagggga 180  
aaccaagaag aacacacaaa aataaaaaca tgcagcgact tcctcaattg cccagatct 240  
taagcatatt atcgcttgac aacgtcggag ttcacgggtg aaggtagctc ctcgatcc 300  
atgttggcga gcaccagggc ccctccggag aaagcccttt ttacaatgaa aggcccttca 360  
tagttcgggg cccactttcc tctgttgtct ttcagagctt gggaaacttt cttcagcacc 420  
aagtcccctt cgtgaacct gcgcgagcat acctcttgctc aaaagcgttc ttactcatt 480  
ttttatataa acgcccgtgg ctcatggtgg ccaaacgctt gccttctatg agattaagct 540  
gatcgaaacg tgcct 555

<210> 7550

<211> 458

<212> DNA

<213> Glycine max

<400> 7550

agcttcaaag gtctctatat ggctgattt ttgctaatag agcatggttt gcaagattat 60  
catcttttct gatttcccat ggatacaagc aatgtacttc tgaccattct tttttcatta 120  
agcatggttg caacacaatt gttattttgc tggtttatgt tgggtgacatt gtcttgacag 180  
gcaatgattt gtctaaaatt caaagaatta caaatctact tgacaatgct ttcaaaatta 240  
aggacttagg agactttaag tactttctgg ggtttgaggt agctagaagc tctattggta 300  
taaacttata tcaaagaaag tatgcactgg acattctcaa taatgttgac atgcttggtt 360  
ctaagccacg ttctacacct tgtgattaca cccaccaaca tcaacactca tggtcaccta 420  
ttttagcaga agatgtttcc tcttatagga gattaata 458

<210> 7551  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 7551

tgaatcttct accccatttc tgacagacaa tgggtgtgtt caccttaagt ggttcctaag 60  
 aagacatgcc tcacagtgat taagaatgag aagaatgagc ttatccccac aagagtgcag 120  
 aacagctggc gagtctgcat tggttatatg aggctgaacc atgtgaccac aaaatatcat 180  
 tttcccctgc cattcattga tcaaatgctt gagcgctcgg caagttagtc tcattactat 240  
 tttcttgaag ggttttgtgg ttgtttacca agtcatattg ctcttgagga tccagaaaag 300  
 agcatattct cctggtcctt taacgctttt ttctattaga ggatgccctt tgggcatgc 360  
 gacgcccctg 370

<210> 7552  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 7552

catataaaac ccaagaccct taagggcttt gctgataact tcttcccggc ccaagcttca 60  
 attggaggct tggcttttac aaacttaatt ggacatttgg tgaatatgga aataacaggg 120  
 gaaactgggt caacccaaaa tggggtaagg aatccctttt ccttgagcat cgatctagcc 180  
 atctccataa ctgggcgaat ctttcttttg gacacttcat tttggtgaag agaatatgcc 240  
 actggaagtt ggctcttaat ggcttcatcc ttaccaaactc tttcaaactc gcgagagggg 300  
 gactctttgc cgctatcact tcttaatact tttatccatt ttccactttg attt 354

<210> 7553  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 7553

agcttggttg tggcaaagtc aaaatctaata tgaaggtaaa cttgaatcaa cctgtagcta 60  
 gctatTTTTG tattcattgt aactaacgga gattctaaat ttccacttaa tatgtgaagt 120

tgtacctttt ctgagacctt attgctacta ccatttagta gctctggtgc catccaaggt 180  
agagttccac gaacaccacc agacaccaag gtatttcgct taatctttga taggccaaaa 240  
tcaccaacct ggtgaaaagc aagttttctta gctttatcac aatgaagaca atgtaataga 300  
atgaataatc cacagcttga aaagatacct tgcataattgg ccgcatagga tccttcaagt 360  
tcacgagcaa attgtcacat ttttaagtcaa aatgcacaat atttttcgag tgtgaatatt 420  
ccattccaaa agcagcatcc atggcaatta tcagtctc 458

<210> 7554  
<211> 558  
<212> DNA  
<213> Glycine max

<400> 7554

tttaaagaat taagtgttaa ggttcaacct caatatgttg tcttaactta atgaacttaa 60  
tgagtagatt gatactttta agacaacctt agccaaattt gttggagaaa cggaaaatct 120  
taacaaattg gaacgatatg gaagatgtcc catagacaaa tctgggtcatg ggtatgaggg 180  
acaaatgcat gtgaagtttg tcaaaacaga aaacaagtta aaagttcctt ttctagcaaa 240  
aatatTTTTT cctcctcaag accttttaga ttattacatc ctgatctgtt tggcccaact 300  
agaacaacct cagtaagtgg aaaaaggat agactagttg cagtggataa ttactctaga 360  
tggaacctaga ttttgttctt agcccacaag gatgagtcct tcaatgtctt ctttaaattt 420  
tgtaaaagag ttcaaaatga aaaaagaatg tgcattactt caattagaaa ggacaatgga 480  
aaagaatttg aaaatgaaaa tttttcacta ttataggagg atttctatgt gtcttgaaat 540  
tatgagctac tcaactcat 558

<210> 7555  
<211> 621  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7555

agttgaagat actccttttg cttctcccat tttatgatcg catgccaggt acttaccat 60  
tccattccc ttctttacac tcaactcatg taaaaacaat tgaggtgttt cgattaaaga 120  
gaacttcaga tttctgaaaa ttaatggatt ggcctaggcg ttgccattct tcattgtttg 180

ctctaaagaa aaggatagag tcatgtaaaa caaatcttc aaggatgctc ttcagcttta 240  
gacattcttc atcatttgct ttaaagaaaa ggaaacagtc atctctgaag agtagatgat 300  
agatactaag ggcacttatg tagattttta ccccatgaat acaacctcta acttctagtg 360  
atttgattaa tgtcaataag cccttattgc aaaggatgac gaggtagggg gacaaaggg 420  
tcccctatct caaccgtga cctatgacga taggcctaac cttctcacta ttaactatga 480  
gtgagtagct cataaattca agacacatca gaaatcctcc tataatagtt gaaaattttc 540  
attntcaaat tcttttcctat tgcccttct aattgaagga atgcacattc ttttttcatt 600  
gtgaactctt tacaaaatta a 621

<210> 7556  
<211> 509  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7556

agcttctctc tgtgtattac ctttctcttt acgattgggt tcttctaaat cgattctttc 60  
tttctctcct tggatcatggc tatcattgat gattctaacc cctcaattct tcattcatcc 120  
aataatccta gcattgctct agtttcacac ctccacagtg aaaactacaa ttcttggaag 180  
aaagcaatgc gcatggcacn ttacgggaag aacaaatatg agtttgctga tgggtcaatt 240  
cctgaaccta ctttgggtca ctccacccat gctttatggc atcgcaatga taacattgtc 300  
tcatcctggc tccttaattc gttatcaaag gagatgcaag tgagtatctt aactgttct 360  
tttgccaaag caatttgatga tgatctcaca gaacgtttcg aacaacgtaa tgggcatttg 420  
attttcaact taagcctgaa ttgatcactt tgcaacaagg gtccatgtct ggttcttcct 480  
tttactccaa gcttcgttct ctctgggag 509

<210> 7557  
<211> 497  
<212> DNA  
<213> Glycine max  
<400> 7557

gctttttaac aaaattttca gttttgtttt ttctacgttc actatattta tttattggat 60

taggttttca caacacgtgt caaattggac tgatttgcca ttctgagaga ctgcagcgct 120  
ggaagtcaag aatgagcttg atttcaagaa taaggcatta tttaccaat gtatagacaa 180  
cctcttcatt cgacagtagt gtaacttaaa atcatcaagg aggtccgggg ctttactgat 240  
ttaggtttga aggaggcaaa ggatttagtg gaaaaagctc cttccgttat aaagaaaggc 300  
gtttcaaagg aagaagcaga gcaataatag agaaaatgaa aattcttggg gcaaaagttg 360  
ttatggaatg aagtgatata ttttgtttct tcccgtttc aatatttttag ttggtagaaa 420  
aatttgatt ggtgaccag gatactactt tgctagtgt gtgttaaatt tttttttaca 480  
cgaactggaa tttgatt 497

<210> 7558  
<211> 514  
<212> DNA  
<213> Glycine max

<400> 7558

agcttttagct ttgtcccaa ggcttcatgt agacttgctc aaaatcgga agtgaacctc 60  
ggatccctgt cagatacaat actagaagga attccatgca acctcactac ttccttgatg 120  
tacaactcca ctagcttctc cattctatac ttcatttca cgggaataaa atgagcagat 180  
ttggtgagtc gatctactat gaccacaca gcatcatgtc cagcactagt cttgggtaaa 240  
ctagatacaa aatocataga tatgctctcc catttccatt cgggaatttc caatggcttc 300  
aattctcctg atggtcgctg gtgctcaacc ttagcttttt gacatgtcaa acatcttgct 360  
acatattcag ctacatcttt cttcatgcca tgccaccaa aacttctctt caaatcttgg 420  
tacatcttag tcattcttgg atggaaacta agacgacttt tatgcgcttc ttccaagatc 480  
ttaactttca aatcatctaa atatggcaca tata 514

<210> 7559  
<211> 493  
<212> DNA  
<213> Glycine max

<400> 7559

tatgaatatt tcaagaaaga cattaaaact ctattccttg tatttgttct tatgctttta 60  
tatgttgaga tttgatagtg ttggatcatg aaaacttggt gtgtgaaaag tctcatgatg 120

thtagataaa ctatgtgaga gttcatgtga ttggtgataa tgatatgaat agtgaattga 180  
 tgaagaattg agcaagatgt gagtgatgaa ttggtgataa gttgaatgag atgtatgacg 240  
 ttgatgtcgt gttattatca tataattaac tttgttttac aaactaatat aaaataatta 300  
 tatgttatgt tgagtaactc tatgtacatg aagaagaccc ataaatgcta atttgtgaag 360  
 tgatgataca tgtatataat tattgtggta agagatgctc ataattatgt ttattgatgg 420  
 atgtcttaca ttgtgtttat tgatttctcg atgatgatat gagatgtggc tgagatgatt 480  
 ttgttttatt att 493

<210> 7560  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 7560  
 atacctgat gaaggtgtcc atatgttctt tttactggac taatacattt gctacccaag 60  
 tttcatggtc ttgcagggtga aaatcctcat aagcatctta aggagttcca tattgtttgt 120  
 ttcacatga agccccctga tgtccaagaa gatcatatct ttctaaaggc ttttctcat 180  
 tctttggagg gagtggcaaa agattggcta tactatcttg ctccataggc cattttcagc 240  
 tgggatgacc ttaagagggt gttcttgggc aaattcttcc ctgcatctat gaccactgcc 300  
 atcagaaaag acatt 315

<210> 7561  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 7561  
 tatagttatt ggagggagaa taaagcaatc caaaatcatt tgaacctttc aagtaacgaa 60  
 gaattctttt tgcggctttt agatgaggac aggtaggagc ctccataaag cgacacacaa 120  
 ctcccaccgc atatagaata tcgggcctcg tattggttag ataccttaaa ctcccacaa 180  
 gactcttgaa gaccgcggag tctaccttct ctcttcatc aaactttgat aacttcaagc 240  
 caccttccat aggtgtgttc acgggattgc aatcaagcat attaaatttc ttcaacactt 300  
 cttttgtgta gcttccttgt gagacaaaga tcccattctc cgtttgcttc acttgcattc 360

ccaagtaata tgacatgagt cccatatctg tcatatcaaa ttcacgagac atggactcct 420  
tgaagtctgt caacaaattt gg 442

<210> 7562  
<211> 515  
<212> DNA  
<213> Glycine max  
  
<400> 7562

agcttgtagg gttaaagtct cacgattggt acgtgctcat gcaacaattg ttagccgtgg 60  
ctatacgaga catctttcca aacaaagtca ggtagcgat aactcgctg tgctttttct 120  
tccatgctat atttagcaaa gtcattgatc cagtcagtgt tgttgagttg gaaaatgagg 180  
ccacaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggtcctgtt tatctacagt 300  
ggatgtaccc ggttgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360  
gtccataagc atctattgtt gagaggtaaa ttgcagaaga agccattgaa ttttgttcag 420  
aatacttaga gaaggctaaa cctgttgggc ttcttgagtc tcggcatgat gacagaaggg 480  
ggggtaaagg ttcaagaaga ctgcatgtga tcaact 515

<210> 7563  
<211> 304  
<212> DNA  
<213> Glycine max  
  
<400> 7563

ctcagcttca caaggagaaa tatactacc atcgagataa tgcttattct tatcaataga 60  
ctgctcagtt gtttcatcgt cattctgggc aggtacaaaa gccgtgggta tgcgatcata 120  
acctttttta atgtgcttga ataaatattt gatggacatt gattgattgc accattctat 180  
gttgaggtga gcctgatatt tcaacaataa gattggattg tatggtacca cgtatctatt 240  
gtctaggggt attccatttt tatctatatt ttactatcat tatgccttct ataataggat 300  
attc 304

<210> 7564  
<211> 598  
<212> DNA



<213> Glycine max

<400> 7564

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acctggagat atgtctcggg ggtcaagaga ccttggggac gtcaggtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180  
tgatgtacct aagcaggcga gctcctggca gtcaacagat gaaaggaaaa cgagaccact 240  
aagcaaggag gcttgtgggt gctggccagc tgtgaattct gtgtaatatg tggattgtgg 300  
cctctggtaa tcgattacca aggggtgggt atcgattaca aggcttataa atgaagacag 360  
gaggctaaga tgggtctctgg taatccataa ccaactggcg tgaaactgaa gaaagagcgc 420  
gaacttcggt cttagctgaa agaatacaca cagtaggttg cttttttgat tttcatgaaa 480  
ttacaacctc tctagaaac acacatgaac cagatgttca cctgcatgtg tctaaacatc 540  
ctccccaatc agcatttgca tatgcagata atttgaagga gtttcttgct ggaaaata 598

<210> 7565

<211> 514

<212> DNA

<213> Glycine max

<400> 7565

tagtaactaa ctctgctcta actaattgcc aactaatcta actagcctct aactgaaaat 60  
aactaactcc atctttttca tacagctgta atacccccct caagttggag agtaaagtgt 120  
aatgagtccc aacttacggg taaaagaaga gaaagccaga agcattaagg gctttgtgaa 180  
gatatctgca acttgatgtt ggtatttcac atgaacaagc ttaaggggtgt ttgactgcac 240  
taactcacia atgaagtgat aatcaatatc aatgtgtttg gatcgttcat ggtgagctgg 300  
attagatgct agactaattg caaatttgct atcacagaaa agcatggtag atttgatgga 360  
aatctcaaag tgcaggagta atcgtcttat ccaaattact tcaattgaaa ctgaggaaag 420  
agctcgatat tctgtccttg ctgaatatat agacacagtg gtttgccttt ttgatttcca 480  
tgatattaaa acatctccta gaaacacaca tgaa 514

<210> 7566

<211> 530

<212> DNA

<213> Glycine max

<400> 7566

tttgtcactc cacccatacc ctggtggata taaaggcttc tttgaatcag tttgtaatgt 60  
attatacata agggcatgtg cttgctgaaa agactcttgt ccgaggtcac caatcatatg 120  
ctccaagtga tctcccatctt ctacatcaaa tggttcagat tgggacccat tctgcatgtc 180  
tatcaattca ccatgccata tccacgctgt ataattcttc ttaatcccat cacacaacag 240  
atgctctcgg ttgtcatgca atatttatcg tatcccatc aaacaattta tacaaggaca 300  
caaaaatttt ccatccta atccagatgact tctttcgaag gcaaattgca agaactcttc 360  
gacgccttcc ttatatgcaa ggctcatgcy acttttgttc atccaacttc gatccatcta 420  
aataataact ctgtgatact cacaaaagta ttcgatgcat gaaaatatcg ctattttatt 480  
ataagtgtgg ccctatccca ttgatgaaga cattttttta tggtagcttc 530

<210> 7567

<211> 586

<212> DNA

<213> Glycine max

<400> 7567

tcatgtttat caaatttgaa agcttttttg cttttgacag aagttggaac atgcagaaca 60  
aaaggggtgcc agcatgttag taaacttttg aggtctttat aagaatggtc aattagtttt 120  
tttttttcac tttctttgtc ttccttattt tgaattattt tcaaaagata caagaccccg 180  
ataaaattta gaaaaataa agaatcgagg taaatagaaa aaaataagaa cccaaaaggt 240  
catttggcct tttttggtta actttcataa ttaaaagtta gcttttataa gacaacaata 300  
tgtaatttta acaaaatagt aacttttgtc atttgaacat aaggtaatta tattctataa 360  
ctatctacct tgtaatatgg ttacactaa acatttgata tgattaaaac ttatcatatt 420  
cttatgatat caaattttta tcttcttctc atatcctatt atactttatc caccaaata 480  
gttattagag taaatgttgt atacaaacgc ctaataagat tgtatcatta tattatcaaa 540  
taggtttgac aatataaatc ttttaagcaa atgcattact ttttga 586

<210> 7568

<211> 576

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7568

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atttaattcta ttataagttc atagcctatt tttttctatt ctaattcata ttttaatatata 120  
tattgtgata aatataaatt tataaaaaaa attccttgat gccttaattg ctttaattta 180  
tggcatacaa ataaagaaat ttcttcaatt acttaaatat aattataaat tttgggttttt 240  
cgatgaaatg tgaatattct cacaaacttt ggcccaaact acttatcggt ctattttatg 300  
atccatgtca tacttaagtt tttttttacc tcttaatatata ttacatagga ttaaattaaa 360  
attccttttat ggccctaata tatgagagta ctgatactta atcctaataag acaaatacaa 420  
ctaccgaggt aatganaga gagagaaatg agggggccaat taagaatata ccccaaaaga 480  
aatttgcatt atgaagaaac aaaactaaag aagaagcaaa caataacttaa atgaatgcta 540  
gacatgcaag tttccttgct caaacatcaa gtaaac 576

<210> 7569

<211> 467

<212> DNA

<213> Glycine max

<400> 7569

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gctagggcca tgtactctgc ttcagttgtt gctctatcaa aaactgattg ttgatttggt 120  
ttccaattga ttgctgtacc aaacaaagta aacacatata ctgttaaaga tttccttggt 180  
tttacatttc ctgcaaaatc tgcacttaca tagcctgtga ttgctgcctc atgtgttgct 240  
ttcttgtagc ttaatccaac tttcaaagat ccatttagat accttagtgt ccacttcaca 300  
gttccttagt gtgcactgcc aggatctccc atgaatctgc ttataatact tacaacatga 360  
gccaagtcag gtttgctgca aaccattcca tacattatgc ttccacacc actggcatat 420  
ggtgtttgat ccattttaca ctttttttca gctgggtttg gtgcttg 467

<210> 7570

<211> 389

<212> DNA

<213> Glycine max

<400> 7570

tgaagaaacg aatgaaaatg ggaacattca tggtatatatt tctcaggaag aagcatctgg 60  
aactcgcctt ctaataaatg gaaggacttg cttgcttcat gtgaaatgag tacatttgta 120  
ccttacctat gttcattctt ccaagaaaag atgtcttttg acttgtaagt aactgggcgt 180  
cttctactat gatctttgaa ttaaaaggaa gtgaaggaaa tttcatgacc ctatattata 240  
tatataattg ctgctcagaa tcttatatca ctatatgttt gaaacttttt atgtttggaa 300  
aacagcacia tgactagttt acacaatctt gcaccttaac atgtatttgc acaatctgaa 360  
cttggtgaga tataatggga attttatatt 389

<210> 7571

<211> 406

<212> DNA

<213> Glycine max

<400> 7571

ttttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60  
tggcatcatt tctggcgcta aactgttggg agttggaagc catcttctca attaaatttc 120  
tggcttcagc aggagttatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
tctccatatt actgagtcct tcataaaaat attggagaag aagttgttct gaaatctgat 240  
gggtgggggca actggcacat agtttcttaa atctctccca gtactcatac aggctctctc 300  
cactgagttg tctaatacct gagatatact tctgatggc tgtggtcctg gaagcacgga 360  
aaaaattttc taagaatact ctcttaaggt catccccact cgtgat 406

<210> 7572

<211> 457

<212> DNA

<213> Glycine max

<400> 7572

agcttgaagg tttgtacatg accaaatctt tatttaaatg tctttaccta aagcagtctt 60  
tgtattcggt taaaatgcat gaagatagat cagtaggaga acaattggat ttgtttaata 120  
aactgattct agatcttgaa aatattgatg tcaactatga tgatgaggat caagctttat 180  
tattgttgtg ctctttgcct aagagttact ctcatittca agagacttta ttgtttggaa 240

gagattctgt ttctcttgat gaagtcagg ctgctctgaa ttcaaaagaa ttgaatgaaa 300  
gaaaggaaaa gaagtcattt acaagtgggtg aagggctgac agcaagaggc aagaccttca 360  
agaaagatag taaatttgat aagaagaaga aaagccagaa aatcagaaga atgggtgaacy 420  
aaacatcttc aaaatcagat gttattactg taaaaag 457

<210> 7573  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7573

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aagttattgt cggtttaatt tggctcagaa ggttcaacaa tttcaatttc tagcggctcg 120  
ctatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt taattggctc 180  
aaaggttcaa catttaattt cgagcgtctc gctatattac gggactcaat caaacatccg 240  
agtaaaaagt tattgtcggt tgaattggct cagagcttca acattcaatt ttgagcgtct 300  
cgatatatta cgagactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360  
tcacaggttc aacatttaat ttcgagcgtc ttgatattt acgggactca atcagacatc 420  
cgagtaaaa 429

<210> 7574  
<211> 468  
<212> DNA  
<213> Glycine max  
<400> 7574

agcttcaaca tcagaccact tccagggtgt tggaactact tcacatggat ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctgggtaaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagagaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga atttgaaaac agcagggtca ctgaattctg cacatctgaa ggcactctc 300  
atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360

ccttgcaaga ggctgctcgg gtcattgcttc atgccaaaga acttccctat aatctctggg 420  
 ctgaagccat gaacacagca tggtacatcc acaacagagt cacactga 468

<210> 7575  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7575

ttcactctaa agtctcatga catgagaaga gtatattacc ttgtaccttt tattattgac 60  
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 tggatggagc cattcttttc caactcattt taccatgtat gaatgaacag tatggaaagg 180  
 attatgaata tgaagctcca gtcaagcttt tggataaact gctgcattcg atgccacaat 240  
 caccggatga acaacttggt gtggtctctc aggtatgctt tctctcgggc tttctttctg 300  
 ttgtttctcc taaggacctt atgatgtctg attaactttt tgacacatta aagggtgctg 360  
 tggctgatat caacattgga tatgaagata ttgntaacac ccaagggtgg aatgggtatg 420  
 ttccatcttt tttgcttttc cttgctgaca gctatattgg ctttaactgct caagttttta 480  
 ctgg 484

<210> 7576  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 7576

tggaacaaat atttttaatt cttggtcccc ttagagactt tgtaaagatg tctgctaatt 60  
 aatcattaga actaacaat tcactaataa cattcttaaa aaggactttc tcccgaacaa 120  
 aatgacaatc aatctcaata tgttttagttc tctcatggaa tactagatta gaagctatat 180  
 gtatggcttc ctgattatca caacatagct tcatttggtg agtattttcca aacctcaatt 240  
 cttgaagatg tttaatccaa atgagctcac atgtggctac aaccatagct ctatattcag 300  
 cctctgcaat agaccttgca acaacatttt gcttcttact cttccgtgag acaagatttc 360  
 cttccaaaga cacacaatat cctgaagtgg aacgcctatc aatgggtgat cctgccccat 420  
 ctgcatcaca aatccaacta 440

<210> 7577  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<400> 7577

agcttatgac catacgaact ccttttttagt ttccgttggt caatttccag cgtggagatg 60  
 aggtatgata ccgaatcgga catccgtgcg aaaagttatg accactcgat tttctcgaga 120  
 gcttccgtag ctcaatttcc agcgtctcga aatatcatga ccccgaaatcg gacatccggg 180  
 tgaaaacata tgaccacttc gagctatcga gagctcccgt tggtaaatgc cgagcgtcta 240  
 gaagagttat gccccgaat agaacattcg agtgaaaacc tatgaccatt cgaattcc 298

<210> 7578  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<400> 7578

agctttgatg gtgttgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60  
 gaatgtatgt atacatgatt ttgatgatgc caaagaagaa tctaacaagg ctgcttcaaa 120  
 tgataagcat ttgcttcaaa aataattcaa gattgcttca acaaacaaag ccttggtttca 180  
 agattcacta aagaccaagc cttgccttaa aacaatgtgc tttcaagaca tgcaaggctc 240  
 tggtaatcga ttaccaggaa gtgtaatcga ttaccagaag acagggttga gaaatagctg 300  
 ttgaaaaagg ttttgaattt gaattttcaa catgtaatcg attaccatat gtctgtaatc 360  
 gattaccagc aacgaaactt tggaaattca aattcaaaag tcataaccct tcaaattata 420  
 actgtgtaat cgattacaca aacattgtaa tcgattacca gtggaaagtt tcagaaaatc 480  
 tgccaacagt cacatctttt cattagattt 510

<210> 7579  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7579

tcccgccaat ggtattttaa atttcatgga ctttattaat ttgtttcctt gtattatacg 60  
tagatgatat tttgcttgtg gctaatagata agggcatgct atatgaggta aaataatttc 120  
tctcaaagaa ctttgatatg agggatatgg gagagacatc ttatgtcata ggcataaaga 180  
tccatagaga aagatctcga ggcatttttag gcttgccctca agaaacctat atcaacaaag 240  
ttttagagag atttaatatg aaagattgtt caccaagtgt agctcccatg gtgaaggggtg 300  
acaaacttgc tttgaatcaa tgccccaaaa atgattttga gcgggaacac atgaaaaata 360  
ttctatatgc ttcagcagtt ggaagcctta tgtatgctca ggtttgcact acacctgata 420  
ttgcattcgc tgttgagtc ttgggaagat atcaaagtaa tccacgtatt gaccttgga 480  
aagctacaaa gaaagtgatg agatatcttc taggaacana ggattacatg ctcatgtaca 540  
gacaaacttg atgtctggaa gtgattg 567

<210> 7580  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 7580

ttgagccaat tcaaacgaca ataacttttt actcggatgt ctgattcagt cccgtaatat 60  
atcgagacgc tcgaagtga atgttgaacc tctagtcaaa tgcaaacgac aataattttt 120  
tcttgatgt ctttttgagt cccgtaatat atcgagatgc tcgaaattga atgttgaagc 180  
tctgagcaaa ttcaaacgac aataactttt tactcggatg tctgattgag tgctgtaata 240  
tatcgagacg ctogaaattg aatgttgaac ctctgagcaa atgcaaacga caataatttt 300  
tttctcgat gtctttttga gtccccgaat ataacgagac gctcaaaatt gaatggtgaa 360  
tctctgagcc cattcaaacg acaataactt tttactt 397

<210> 7581  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 7581

agcttgatc aaattcaaac gacaataatg ttttactcgg atgtttgatt gcgtctcgta 60  
atatatcgag acgctcgaaa ttgaaaacgg atgctcgtag caaatgcaaa ccgcaataac 120



ttttaactcg gatgtatgat tgagtaccat aatagatcga gacgctcgaa attgaaaaaa 180  
gaagttctga gcaaattcaa acgactataa ctttttactc ggatgtctga ttgagtcccg 240  
taatataattg aggagctcga aattgagaac agaagctctg accataatca aaccacaata 300  
actttatatt cggatttgcg attgagtccc gtaatatatg aagacgctcc aaattgaaaa 360  
acagaagctc tgaacaaatt caaacgacaa taacctttta ctcggatg 408

<210> 7582  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 7582

gacactatat aaactcaact ttataggctc gagctcggac tgagggtgaat actttatatt 60  
tgatcttggc tcattacctg acataggatc tctttatctt ataaggctca ggatggctca 120  
tataaaaaac cggcttatac cacgaaccta tttaaaagtc tgcttacaga cgtatttgat 180  
taatcaatat atttcaaac ctagtgaaat actgactgaa aaaacaaact tacttaattc 240  
tctataagaa aacgacagat gcaaaaaaca ttgatgaact aaatgatatt gaatacaaat 300  
cggtaaag 308

<210> 7583  
<211> 562  
<212> DNA  
<213> Glycine max

<400> 7583

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taaaaaaaaa aaagtcaaaa acaacatgta tggaatagag atatttgaac caccaaagta 120  
aagaactgtt acaaataagg aagaaatgaa taggttttaa taggaagcaa cataaaataa 180  
accaaatttg agtgggttaa ccctatatgc tacactcgtt tgctacctac tattattggg 240  
tacctgtgat gacagttaat tcaaaatgta atttataata ttaatatctt atttttgatt 300  
tttttaattt gtggttggtt gaatactttg gtgcatttgt caagtgatta cgattctttg 360  
tgttaaaaggt tattatcgat caacttcttt atttctaact acaaagtttt acatggactg 420  
tttatagaaa tattttgtta tgtattacat ttaaaacata ttggataaga gtgttctcgt 480

tagtgacaat ttgtcattaa ttgagtgtta atacatgtca taactatcga taggagtagt 540  
 tgttctttttg cattgcataa ct 562

<210> 7584  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 7584

ttgatgcaac atatggagag gttaatgaaa caacgagatg atgcgctcca tgagaggttg 60  
 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaaag 180  
 aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgccac 240  
 aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagcccat ggttgataca 360  
 tggacggaga tgaaaaagat ca 382

<210> 7585  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7585

tcttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120  
 tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcactcttc 180  
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
 ggtgggggca actggcacat agtttcttaa atctctccca gtactcatac aggctctctc 300  
 cactgagttg tctaatacct gagatatacct tctgatggc tgtggtcctg gaagcacgga 360  
 aatttttttc taagaatact ctnttaaggt catcccagct cgtgatggac cttggagcaa 420  
 ggtaatacag ncagtccttt gccactccct ctaatgaatg aggaaaagcc ttcagaaata 480  
 tgtgacctc ttggacatc 499

<210> 7586  
 <211> 600  
 <212> DNA  
 <213> Glycine max

<400> 7586

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agcttcatat tacatgatat agtcttgagt ttattttcta acctataaac ttgacatact   60
aatatcatca tattcaaaca tattttgacc cctaagaaaa ttcttacctc aagaaagaat  120
tattaatctc atcctcttca taggttagac actgatagaa tttaaaaaat attgtacact  180
tgtttgatct aatttgaggt aactttgaat aaatttagtt ttgtaaccat ttcaatgtat  240
tagttgaatc aattcaccaa tggaaaaggt cccttgagtc ttttactgta tattaacagt  300
tattactata gtgtaacata tagtaataac tggtaaactt gggtatgatt ccttgacact  360
ttctaaactt taaacttggg tatgaatttg gaacatatta caagctaatt aataagatga  420
atgaagaaga cttctttttg tattgaagaa acattacata tatgatcatt attttaccat  480
agcccattgg agattaattc ccagagaata cattactaga cacctccttt ttaatgggga  540
tggtctgttc tctcctaggg aaaatataca gaaaatggta aaaaaaaggg gctattgggtg  600
  
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<210> 7587  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<400> 7587

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tctgaacaaa tgtggagtat ggaggattgc cttgatggtc ctacttaag caatcatgaa  120
gttgagctcc aaactcgaaa gtggaggaca catgaacagc cctaaacaag acattcatgt  180
ggctctggaa aaggacgaga atggaggatt accttgaggt tcctctctta ggaaatcatg  240
gaatacagct ccaatactcg aaaatggaga acacatgaac agccctaagc aataacattc  300
atgtggcttc ggaaaaggac gcgaatggag gattgccttg aggttcctct cttatgcaat  360
catggaatac agctccagac tcgaaaatgg aggacacgtg aatgacaacg caattcactc  420
acgcggcttc cggaaaaaga tgaataatgg aggattgcct tgacggggcc ctcttatgca  480
atcatggaac acaactccaa aactcaaaat ggaggacacg tg                               522
  
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<210> 7588  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<400> 7588

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gagttccatt tcgtgttcct gaagctttcc aaaaaagtt gcaagagaca tgtagtaag 120
atctcttgat tctgtaatag tcgttacctt tggttgtcat tccctgctta aacatcttag 180
aactttgtta ataagatctt cattgggaaa tatctttcct aatgatgcaa gatgatttac 240
aatatgtggt aatctctttt gcatatcctg catagtttta ttttgattca ttctaaataa 300
ttcatattct tgggttaggg tatttattct aaaccctttt gcatatgttg ttccttcattg 360
ggttacttgt aaggatccc acatttcttt tgcattcttg cagttggata ctctaaaata 420
atcattcatg cctaatgcag atgtaattat atttttggct tttaaattat attggaccat 480
ttcctttctt cttcattcca ttggttccta aggttttcta 520
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<210> 7589  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<400> 7589

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ttatacaact gaaacatggg agaaaaatag tgttttctca tgcacgcacg ttttctaaaa 60
ccttatcacc cttatagaca attgaaaaaa cttttaatgg aagtcaagag cacgaaattg 120
cactgatacc gttgattggg gagcaggttt tccagcgagt tgaacacctg aatactatat 180
ttggaaagac ccaaaagaag gataaaagta agatttgcac atggaagaag aggtccattt 240
tctttgatct tccgtattgg tctgatctag atgttagacg ttgtatcgat gttatgcatg 300
tggagaaaaa tttatgtgac agtgtcattg ggacgcttct taacattcaa ggcaagatga 360
aagatggtct gaatacctgt caagatctag ttgacatggg catatgatcg cagttgcatc 420
caacgtctga tgggaaaaaa atatacttgc ctccagcttg tcatactttg tctaaaaagg 480
agaagataag tttttgttag tgtct 505
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<210> 7590  
 <211> 551

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7590

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 aacacaccct gtgattaaac catggcatcg gcattatggt tttataaaaag tattgtggga 180  
 taagtggcat accccgatgc tttgaaatca tattcggatt atatctgatg attaagtttg 240  
 tttaccttgt atacaggccc aaatcctcct tcacctatct tatttgcagg gtctaagtta 300  
 ttagtagctg ctttaatttg tcttaagctg aaataaccg ttttcaattc tagaagttct 360  
 gcagcaggga agatttgtaa ataaaatcac tattctatta taaaatcaac aaataagagg 420  
 ggtgggggga ggaganagga gacacacca gagaaaatat tgagaaagca acaaataattt 480  
 gcaacgacca cgaacctaaa tccacatttt tttttaaat tgatcatcatt ttggaacttc 540  
 aaagtaaaat t 551

<210> 7591  
 <211> 582  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7591

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 ttcaatccta taacgcaacg tggcggacaa aaatgggcag ttaacttgaa tggccattat 120  
 tgtcaatgcg gaaggatattc tgcgcttcac tatccatggt cacacattat tgcagcttgt 180  
 ggttacgtga gcatgaacta ctaccaatat atagatgttg tttacaccaa tgagcacatc 240  
 ttaaaagcat actccgcaca gtggtggcct cttgggaatg aagcggcaat tctccttct 300  
 gatgaggcat ggacactaat cctgaccca actacaattc gtgcgaaagg tcggccaaaa 360  
 tcaacaagga taaggaatga gatggattgt gtcgaaccat ctgaccaccg acaaaaatgt 420  
 agtagatgtg gagctgaagg gcacaatagg cgccgatgtc caatgcaatc tgaccgtggg 480  
 agtaatntat ttaattgatt tatgtatgtt acatgcctga cttgtattgc tttagggttt 540  
 gttcaatgta attacttcgt tggctctcaa taaaatcgtc ag 582

<210> 7592  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<400> 7592

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 catccaactt acttgactag tcttttcacg aggaagccac agttttctcc aagattttct 120  
 ttagttccct gtttgaaact ttagcttggc catttttttg tgggtggtta ggtgaggcta 180  
 ctatgtgcgt gacatgatag ttacctaaca ccttctgcag ttggctgtta caaaaatgag 240  
 agccccacat cacttattaa gactctaggc actccaaagc gagcaaaaat attcttcttc 300  
 aaaaacttca ccataatttt agcatcactc ttoggagtgt ccactgcttc aaccactta 360  
 gagacgcaat ccatagctac gagaatatat tcatttccca aagatggagg aagaggacct 420  
 atgaaatcaa tcccccaaca atcaaagatt ccacttcca ttatgttttg caagggaatt 480  
 tcatttctcc tagagattcc tcccatcctt tgacattgat cacaatgaat ggcattgtca 540  
 tgaacatctt tgaaa 555

<210> 7593  
 <211> 588  
 <212> DNA  
 <213> Glycine max

<400> 7593

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 tatgtaaagt ttactttcac catttagttt gtcaaattat atcaaattca agttagacaa 120  
 cattattttc aatatttgac tcattgtatt aagttgaata tgacaattct attattattt 180  
 gtatctaaag ataattatta taaaattcaa taaatttaca ttacattccc taaaaaatt 240  
 ataatacata atattttata acattttata atttgatgac aataataatg ataaaatgca 300  
 ttaggctagt taactcaact gaaacctttt caatgaaatt tatgtcttta aaatataata 360  
 tcatattaaa tatgaataat tctactctca tgtaagtatg atataatatg gacttaactc 420  
 ataaaattgt gacttttaca ttactcaagc cttattaaaa ttttcttgtc caatttgta 480  
 tattttgttg ttggcattga gtcaactcaa cttgaacttg ataatatatt tgtccctcta 540

gataattata acattattgt ataacattag tgtataacat atattttt

588

<210> 7594

<211> 508

<212> DNA

<213> Glycine max

<400> 7594

tctaggatgc ctattctaga tacaaccaa tcaggatgca cactccaaac gaggagaaaa 60  
caacatttat cactaaatat gccaaactttt gctatagggt catgcccac agcctccaaa 120  
ttgcaggcgc tacatactag agattgatgg atcgaatttt caaacaacag accggagtct 180  
atgttgacca catggctcgt aaatcttaga gcattgccca acatgtggta gacctggaag 240  
aggtgttcgg agagctctac aaatatgata tgcgcctcaa ccaaaaaaaaa tgtactttcg 300  
aggtctgtga aagaaaattc ttgggcttta tgatcatgca tcggggaata gaagccaacc 360  
ccgacaaatg cactgctatt ttggagatgt gtagtcttac taacgtccag gaaatccaaa 420  
agctgaatgg aagactacca tcctgtcca ggtttcttcc aaagcttgct gaaaagttaa 480  
gtcgttctac gaattgctca agaaaaat 508

<210> 7595

<211> 439

<212> DNA

<213> Glycine max

<400> 7595

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catgcaagtt gaaagccttg gaggaaagag gtatgcctat gttgttgtgg atgatttctc 120  
cagatttacc tgggtcaact ttttcagaga gaaatcagac acctttgaag tattcaaaga 180  
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtacca 240  
tggcagagag tttgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300  
tgagttcttt gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360  
tttgaggaa gctgctaggg tcatgcttca tgccaaagaa cttccctatt atctctgggc 420  
tgaagccatg aacacaaca 439

<210> 7596  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7596

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 ttatcaatca gattcctagc ctcaacagga gtcatatcac caagagctcc accattggca 120  
 gcatcaatca tactcctctt catgttgcta agtccctcat agaaatattg cagaaggagt 180  
 tgctcagaaa tctgggtggg aggacagctt gcacacaatt tcttgaatct ttcccagtac 240  
 tcatacaagc tctctccact aagttatctg atgcctgaaa tgtcttttct gatggtagtg 300  
 gtcctagatg canggaagaa tttctccaag aacacctctt taagtcatcc canctggtaa 360  
 tggacct 367

<210> 7597  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7597

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 tgctatccag tgatttgagg aaggccacca ttcttgcttt ccaatattca tagttgcttc 180  
 catcgagaat tgggtggtctg ttactgggc cgccttcttt ctccatgttc atcagaattt 240  
 atctccctag atctcactct gtgatttcga gtgttggttc tgataccaat tgaaattctg 300  
 ataccagggg acagatgtcg tacaggatgt cagcacatca cgcttcagaa catgcagatt 360  
 atatgtgtcc gtatgaacag a 381

<210> 7598  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7598



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atccgagtga aaaggtatat tcgtttgaat ttgctcagag gttcaacatt caatatcgag 120  
cgtttcgata tatgaccaga ctgaattaga catccgagta aaaagttact gtagtttgaa 180  
gttgctcaga gcttccacat tcaatatoga gcgtttcgat atattacggg actgaatcag 240  
acatctgaga aaaaa 255

<210> 7599  
<211> 265  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7599

ttactcggat gtctgattga gacccgtaat atatcgagac gctcgaaatt gaataccgaa 60  
gctctgagca aattcaaacg acaataagtt ttactcgta tgttcgattg aatcccgtaa 120  
tatatcgaaa cgctcgaaat tgaagaccga agatctgagc gaattcaaac gacaataact 180  
ttttactcgg atgtctgatt gagtcccgtg gtatatcgag acgctcacac tngaattgccg 240  
aagctctgag caaattcaaa cgaca 265

<210> 7600  
<211> 363  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7600

aacataagca cttagacaat gaaggaaagc tggagttgct gcacatgatg tccaacgtta 60  
tgtcaaagaa taaaatcggg ctgcacaatg cacaaggcaa gataaagtgt caaatgaaga 120  
attgaagctg caggattcac gatgtctgat acaatgtcca ggacatcctg cccgaaaata 180  
ctggagttgc tgaaagcatt gaagttgcag gatccacgat gtcggataca atgtccagga 240  
catcctgccc gaaaataactg gagttgctga aagcattgaa gttgcaggat ccgcgatgtc 300  
ggatactatg tccacgacat ctggcccga nattctggac atataaatct gttatatctt 360  
taa 363

<210> 7601

<211> 325  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7601  
  
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 cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120  
 gaagatgtcc agattgcaac tattggctac aaaattcgaa aatctgaaga tgaaggagga 180  
 agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240  
 gggagaaaagg atgacagacg anaagctggg gagaaagatc ctcagatcct tgcctaagag 300  
 aattgacatg aaagtcactg caata 325

<210> 7602  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7602  
  
 agctatcgag aatataaaat tgtcataact ttctactcgg atgtccgatt cangcacatc 60  
 aaatatctag acgctcgaaa ttgaacaacg gaagctctcg agaatttaaa attgtcataa 120  
 ctttttactc ggatgtccga ttcaggaaca tcacatatct agacgctcga aattaaacaa 180  
 cggaacctct cgagaaattc aagtggatcat aactttttcac tcgtatgtcc gattcacgcg 240  
 cataatatat tgagacgctc gaaattgaac aacggaagct ctcgagaaat ttaaat 296

<210> 7603  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7603  
  
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 tntggactaa tagaaaactg aaaaatacaa tacaactaac aaattaacta caacggagtt 120  
 tcactttgag ggtgattcat tggctaattg catatcccgg gttaaggaaa ttgccaagtg 180  
 cctcaaaaaa gacacagtat tagcgaaacc tagaaattga aacattaaat tgggggtgaga 240

aaagaaacac gaaaagatta gctcaccgca ttttgctcta ctgcggtagt attaggttta 300  
tagaattgac ttatatacca gtgtcaacca ataccaatat ccatagtaag tatgctctga 360  
tttagattta ttagaattta cttntttacc tcatnttatt cattaataat gagtngattt 420  
tctatggat 429

<210> 7604  
<211> 384  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7604

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tgaagagcca atgggttgata catgggcgga gatgaaaagg atcatgagga agcagtatgt 120  
gccgactagt tactcaaggg acttgaaatt caagctccaa aaactaacc aaggcaaaaa 180  
aggggttgag gagtacttca aggaaatgga tgtgcttatg attcaagcaa agatcgaaga 240  
agatgaggag gtaactatgg ctcgatttct taatggtttg actaataata tccgtgatat 300  
tgttgagttg caggaatttg ttgaaatgga taatttgctt cacaagaaa tccaagtaga 360  
gcaacaatta aaaaggaaag gagt 384

<210> 7605  
<211> 306  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7605

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tntgattgcc aatgagggtta tagctgaggc taaggctaaa aataaacctt gcatggtctt 120  
caaagcggat tttgaaaagg cgtatgattc gggtttcttg gggtttcttg actacatgtt 180  
gatgaggatg ggcttttctg aaagatggag gaaatggatt aatgggttgc tgtccactgc 240  
aaccatatcc attttaatta atggaagtct gttttttgga gatgccactt agcataatgt 300  
tagaac 306

<210> 7606  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7606

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 ttcctaataag attttgtttc tcaagttcat gtaatcctct ttcactaaca tgacctaatac 120  
 tcaaatgccca aagttttgtt ttatcaatca atgtattact agctaccgat gcatgtccaa 180  
 caatagtggga accttcaaga ataaacaagc cattactttt attcttggtta cccttagcta 240  
 tgattaaaga tccatttgaa atcttacgaa cgccatttaa aattctagtt gaatatccta 300  
 gatcatcaaa catgtttatg gaaataagat ttcttttgag ttctggaatg taccttacat 360  
 ttttcagtag atactctcta tcatcaaaca ttttcaatct cacagttcca atgccttgta 420  
 cct 423

<210> 7607  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 7607

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 ttgcccttat gtgcaacaat ctgaagcaat tgaacaacct gaagcttatg ctgcaaacat 180  
 caacaacaga cctcctcaac ctcaacagca aaatcagcca caacagaata attatgacct 240  
 ctccagcaac aggtacaatc ccagatggag gaatcatccc aaccttagat ggtcgaatcc 300  
 ttcacaacaa caacaacaac agacttattt ttcaaat 337

<210> 7608  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7608

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ctaaaacctc atcaccctta cagacgattg aaaaaagctt ttaatggaag tcaagagcat 120  
gaaactgcac cgataccatt gactggtgag caggtcttcc agcgggttga acacctgaat 180  
actgtatttg gaaagaccta aaagaaggat aaaagtaaga cttgcataag gaataagagg 240  
tccattttct ttgatcttcc gtattggtct gatctagatg ttagccattg tatcaatggt 300  
atgcatgtag agaaaaatgt atgtcacagt gtcattggga cgctccttaa cattcaaggc 360  
aagatgaaag atgggtctgaa tacccatgaa gatctatctg acatgggtat atgattgcag 420  
ttgc 424

<210> 7609  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 7609  
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gaaattttct tgacaaagca agtggtgaac aaaaactctt agaaagatgt tgagaattag 120  
tgtaataaag ttttctgaaa ttctgtccat ggtcacatat ttatagtcatt ttgatgactc 180  
ttgaagaacc atgttaaaag ttgtgacagt tggcaaaaac tagtcacttt aaaagttgtg 240  
actctttgga aatttatattt tcaaaaccaa tcaactggtaa tcgattacca ttatgggtgta 300  
atcgattaca tagtttatatt tatcaaagg tgtgactctt ctggtgaagt tttgaagtca 360  
acgttcagaa ctactggtaa tcgatta 387

<210> 7610  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7610

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aatttgttcc tgctgcaagg gtttgtggtt tgtgctcttc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagtaa ttgagcagcc tggagcttat gctgcaaaca 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240

tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcagt tgggtctagcc 300  
ctcaacaaca acaacagca 319

<210> 7611  
<211> 385  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7611

agcttatgct gcacacatct acaatagact cttctccacc tcagtagcaa aatcagccac 60  
aacagaacaa ttatgacctc tctagcaaca ggtacaatcc cgagtggagg aatcatccca 120  
accttagatg gtttaatcct tcaaaacagc cgcagcaaat acaacagcct tattttcaga 180  
atgctgctgg cccaagcaga ccatacatta ctccaccaat ccaacaacag caacagcccc 240  
agaaacagaa gacagttgag gtcctccgc aaccctccct tgaagaactn gtgaggcana 300  
tgactatgca aaacatgcag tttcaacaag agaccagagc ctccattcag agcttaacta 360  
atcagatgag acaatnggct acaca 385

<210> 7612  
<211> 305  
<212> DNA  
<213> Glycine max  
  
<400> 7612

agcttatgac cattcgaatt tctcaagagt ttttggtggt caatttcgag cgtgtagatg 60  
agttatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgat tttctcgaga 120  
gcttgcgttg ttcaatttcg agcgtctcga tatattatga ccccgaaatcg gacatctgtg 180  
tgaaaacgta tgaccattcg attttctcga gagcttccgt tgttcaattt ccagcgttta 240  
gatgagttat gtccccgaat cgaacattcg tgtgaaaact tatgaccatt cgaatttctc 300  
gagag 305

<210> 7613  
<211> 358  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 7613

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tcaatttcgc acgtctctat atgtgacgct actgaatcgg acatctgtgt gaaaagttat 120  
gaccatttga atttctcgag agcttctgtt gcttaaattc gagcgtctcg acatattatg 180  
ctccogaatc gggcctccgc ttgaaaaatt aagaccatt gaatttctcg agcgcttccg 240  
atgtttaatt tcgagcatct cgatatatta tcagcctgaa tcggacctcc gtgtgagaac 300  
gtatgaccat ttgaatttct cgagagcttc cgctgttcaa tttcgagcgt gtgaacat 358

<210> 7614

<211> 431

<212> DNA

<213> Glycine max

<400> 7614

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cattctcaaa cattcatttc atgcaaaaca atccactgca tatcattttc aatcaattca 120  
ctattcaaac acgcttttagg tacaagcaaa caactcaaag tgctgaaatt taaataactg 180  
aaattaaaat aactgaaata tgacaacgaa atcagctgga aatataaggt gtttaacctt 240  
caccaaaaca tcttcaatga ctccatatgg ccttgtgatg gagcgggtcaa ctaactggag 300  
ggatcatgct gtgggcatta tctctatctc tccaagtcgc tggcacatgg aaagaggcat 360  
taaactgata ctagctccca agtctatgag aagcttgctt acaacaacct caccaatata 420  
acacggtatc g 431

<210> 7615

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7615

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gaaggccttg attntctcag ggtccacttg taccacctt ctaccaacta caaacctaa 120  
gaaaactata ttatctacac aaaaagtaca cttctctata tttgcataga ggggtgtttt 180  
cctaaggact gaaagaactt gctgagatg tctaagtga tcatttaggc tctactgta 240

cactaaaatg tcataaaaat aaaaaactac aaatctacct atgaaatccc ttaagacatg 300  
 atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca ttagtagcca 360  
 ttcatataaa ccaaacttgg tcttgaaagc ntgtttccac tcatcaccct 410

<210> 7616  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7616

ntgatctaac aaatagggtt tgagtttatt gtccaatgta aagagaagtc ttactttata 60  
 aaagctttta tatgaaataa cctattccca ccataatgg gtataggtaa tccatgatct 120  
 caaaccaacc gaaattgacc caattagttt ggttcaaatt ttttttagctt aggtcaaacc 180  
 caacacaacc caatcctgcc tgttcaattt acaagccaag taagatgttt tgttttttta 240  
 actcgtgacc caaccgtaa catataatta aattcattat atatataatt aaattattaa 300  
 acacaaaaca ctataacttt tttctaact aatttattaa attaaatcaa ttatactttt 360  
 ttctttttca gntgggtctt atatttttat c 391

<210> 7617  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7617

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 tcttcacaaa caagtcactt agagaattgt gacttttggg aatgtatttt tcgaaatcag 120  
 tcactggtaa tcgattacca ttaagggtga atcgattaca catcaacaga tgtgactctt 180  
 cattttgaat tttgaatatc aaaacattta caagctttgg taatcgatta cacaatgtaa 240  
 tgattacaag tattgtgtaa tcgattacac aagtttaaaa tacttttaaaa ctgttttaaac 300  
 ataagttgta actattcgaa attgaaatct taacatttta aaacactagt aatcgattac 360  
 taccttctgg tgatcgatta ctagagagta aaact 395



<210> 7618  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7618

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attgactatg gcatcatttc tggcgctaaa ctgctgggag tcggaggcca tcttctcaat 120
taaatttctg gcttcagcag gagtcatgtc tccaagggtc ccaccactgg cagcatctat 180
catacttctc tccatattac tgagtccttc ataaaaatgt tggagaagaa gctgttctga 240
aatctgatgg tgagggcaac tggcacatat tttcttaaat cgctcccagt actcatacag 300
gctctctcca ctgagttgtc taatacctga gatatcttct ctgatggctg tggtcctgga 360
agcanggaaa aaattttcta agaatactct cttaaggcca tcccagctcg tgatggacct 420
tggagcaagg taatacaac 439
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<210> 7619  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 7619

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agcttatgat tccatttcct gggaattctt gtattggatg tttaagtcca ttttctttcc 60
cagcccagat ctgtacttgg atcatggagt gtgtttcttc cacttccttt agtgtggcag 120
tcaatggatc catttatggc cacttcaaag gacagcgggg tcttaaacia gaggatcctc 180
tctcccctta tctgtttgtg ctctgtttgg agtacttttc cagagatatg agcagcctca 240
aggatgatgc caattttaaa tttcatccca actatgcagg tattcagcta tctcatttgg 300
ctgttcgaga tgatattatg cttctatcta gatgagatat ccattctgtg ttaactatg 359
```

<210> 7620  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 7620

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ggacactatg aaactccgct tatggacatc ttgatttcgc ctatctagta agcttttctg 60
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ttctaagagg aatctgtgga ggggtggttag gaagttccac attgcttggtc tcaattttta 120  
 aggtgcaact tatatatcta tttgacaact tcactactaa tgtcaattgg ttttaagcta 180  
 aaatctagta gctttgtttg ttttcagaca tctgtagagg ggagtgttcg gaagtctcag 240  
 atcacttgcc ttagttcccc agatacaact tatatatatg ttggacaatt tcaattagtg 300  
 ttattggttt taagctaaaa tctagcaatt gacatgtatg agacacatgg aagagaattg 360  
 atgaagaggt agcctgctta aattaaagca cataaatgc 399

<210> 7621

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7621

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 ttccgatgac atgcggagat gcccaacggg tatccgcact tttgtcaact agaggcaagc 120  
 gagcctgttg accaagacta ttttagtctc acacctttgt catctacagt cggcaagtca 180  
 gatgacatgc ggagataccc aagggttatc cacacctttg tcaactacgg gcaagcaagc 240  
 ctgttgaaca ccgagacttt nttagtctca cacacaaaaa ttgaagaact acgtaggtct 300  
 gatttcctca tcacaaattg agaatactta ggagcaaaag ccctactttt atcgaccacc 360  
 ccacactttt gttaccgtga ctcaagagtc tggtggcata cgaagacacc cgatggttat 420  
 ccgcacaca 429

<210> 7622

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7622

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 tcttaagaag ggggggttgaa ttaagatatt acaaattatt tccccaatta aaattctatc 120  
 aagttataaa ttcccttaat aatgaacttc ttaaattattg attcaaatag aacaatttga 180  
 atatgaatat aaaacaataa taaataaagg agtttaaggg aagagaaagt gcaaactcag 240

attgatgtgc catcattttc ttctattttc taaacccttt ntgcaccatt ttaattattg 300  
attggtctta attgtcaatt aattacgcag ttttattatt tggggccatt cagactaatt 360  
gatgtttnta atctaatttc aggaattaat gaagcattgg gcttgaatct 410

<210> 7623  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7623

tgctaacca tggaagctcc taatatctcc cacacttttt gtggtgggcc attcttggat 60  
ggccttgatt ttctcagggt ccacttggac cccatttcta ccaactacaa aacctaaaga 120  
aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgtttttcct 180  
aaggactgaa agaacttgtc tgagatgtcc taagtgatca tctaggctcc tactatacac 240  
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360  
atacaaacca aacttgggtct tgaaagcagt tntccactca tcaccc 406

<210> 7624  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7624

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gctaagctca cctccttgag atgagaagct agagcttagc tacacacccc ctataatagc 120  
taagctcacc ccatgacaaa aaaacatgaa aatacaaaaa aaaggcctta ctacaaagac 180  
tactcaaaat gccccgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240  
aaggcccaga tgaaggaaat acctattcta atattgacag agataaccgg gctcatactt 300  
agcccatggg ctcgaaatct accctaaggc tcatgagaac cctaaggcct teccttggat 360  
ctctagccca atctacttgg a 381

<210> 7625

<211> 421  
 <212> DNA  
 <213> Glycine max

<400> 7625

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gcttctgctc attctggaac ttcaagcttc tttgatcagt cctaattaaa attttgtttc 60
ctagcagata atgcctccat ttcttctactg ctaacaccac taccatcagt tccctctcat 120
atattgactt gacttgagcc ctgtctgaca gaggcttgct ccaaaaagct aaagggttct 180
cttcctacaa taaaactgcc cctagcccag ttctaatgc atcagtttcc atgataaaat 240
ttttagagaa atctggtagt gccagaataa gaagcctcct cattgctgcc ttaagctctt 300
caaaggcatg agtagcttct acgaggtatt tataaaccaa gttagagata gttacaatcc 360
aggattttat aaacctctat acagcagaac taactataac taactctaac aaaaagctta 420
c 421
```

<210> 7626  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 7626

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agcttcacat cagaccactt ccagggtgct ggaactactt tcatggactt gttggggcct 60
atgcaagttg aaagccttgg aggaaagagg tatgcctatg ttgttgtgga tgatttctcc 120
agatttacct ggggtcaactt tatcagagaa aaatcagaca cctttgaagt attcaaggag 180
ttgagtctaa gacttcaaag agaaaaagac tgtgtcatca agagaatcag gagtgaccat 240
ggcagagagt ttgaaaacag caggtttact gaattctgca catctgaagg catcactcat 300
gagttctctg cagccattac accacaacag aatggcatag ttgagaggaa aaacaggact 360
ttgcaagagg ctgctagggt catgcttcat gccaaagaac ttccctataa tctctgggct 420
gaagccatga acaca 435
```

<210> 7627  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7627

nttatccatg gcttcatatg gtggtgagct tcttctatac tcattcttcta cttaaagtga 60  
 cgtctccatt catctttctc cttctccatt cctctgcaat cagacctcaa gaagcaaagg 120  
 aatccatgga tgaagaagat ccaaggccta caagctccaa tggagctaca tcatgtggta 180  
 tcaagagcat cttcgtctag gtgatgttct tttgcttctt ctatcttttt gttctgtcaa 240  
 ctcactataa ttcgttgggc ttcattctat tctccatgta tategtccat tgtcttggg 300  
 tttggttctg cttagagtag attcaattaa atcttagatc tacacttggt cttgcatttc 360  
 tatggtacac attttataga tctactcttg aatcatg 397

<210> 7628  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 7628  
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 caattcatta gtgggctttc cttctgtgtc caacatcttg ggatgttccc agcctttgat 120  
 gacagctttc cagggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180  
 gtattcatag ttggttccat ccaaaattgg tggctgttgc actggctctc cttctttctc 240  
 catgttcac agaatatttc tccctagatc tcaactcagt atttcgagt cgggctctga 300  
 taccaattga aattctgata ccaatgccag atgtcgt 337

<210> 7629  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7629

atctggaaca tgtgcatatg ctatacancc caaaactnta agatgnnttg ataatggctg 60  
 ccttccactc tanngcttct ttggcatctt gtcatgaaca ctcttagtgc ggcacctatt 120  
 caaagtgtag acaatggtag caactacttc tgcccagaac ttcttaggca ttttcttggc 180  
 cttcaacatg tacctcacta tatccatgag tgttctattc ttcttttcag ttacttcac 239

<210> 7630

<211> 303  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7630  
  
 taccaccgga tatggtactt tcacaccttc attcacaact nttcctctnt tcttctctct 60  
 agctttgtca cttctactcc tctcttcatt ctatttggtc atcttttcat tntatcattt 120  
 ctctttcttn tctacttctt ttctgggcat taattctttt tcttaaccat tattgtattc 180  
 ttttctgat gcttcacttc tcacatatct tcatttatca gacctttctt tcacagcctc 240  
 ttctggatac acactatctc atcctcactc acaacctcta ctcttgcata cagcttcatt 300  
 ctc 303

<210> 7631  
 <211> 232  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7631  
  
 tcttctacac ttggagtgat cacatgcaat cctcttgaac ccttaccacc cactctgtca 60  
 tcatgccgag actcangaag cccaacaggt ntagccttct ctaagtattc tgaacaaaat 120  
 tcaatggctt cttctgcaat gtacctctca acaatagatg cttctggacg atatagattc 180  
 tntgtattac cctttaagat cttcatgtat cgctcaaccg agtacatcca cc 232

<210> 7632  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7632  
  
 gatatcaagt gaatattcat tgcctctatt cctctnttat gcttgcggtt taccgagtnt 60  
 ggaggtcctg ttctcatcg acctgctgaa gacttggcat tttcagttgc aanggttata 120  
 cagaaagggg gatcatntat aaattattac atggtaactt cattatngat tgattntgat 180  
 gtngtatatt taaatattca actcagtcct tttattttgt tcctttcagt atcat 235

<210> 7633  
 <211> 161  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7633

gtacttacat tngaattcct cgagagctgt ccgttggtcaa tgtcgagcgt ctggatatat 60  
 tatgctcctg aatcggactt tcgtgtgann aagtatgacc agttgacatt ctcgagagcg 120  
 tntgggtgttc aatntccagc gtctcgatat gtgatgtgcc t 161

<210> 7634  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7634

tgtgtcatgg tcaagaaggt caatggcaaa tagcgaatgt gcaccaacta cattgatcta 60  
 natanggtgt gccctaaaga tgcataccct ntgtccaaca tcgactggct agttgatgga 120  
 gcgtncgggt tccaggtgct aagcttctcg gacgcctact tcgaatacaa ccagatcaaa 180  
 atgcattctc tagacgagga gaanatgaca tntatcac 218

<210> 7635  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7635

ctgcagctgt atgtgggttaa tgtctaaata aaattttatg tttatgttat tgaagaaatc 60  
 tatcagtgaa ataaatattt tgatatgaat ttgtagtatt tttaatagat angtgatgta 120  
 agattattat gtgtaataag gatgaacgtt cacttcattt aaaaattgag acatttatatt 180  
 gaaaatattt gagtcacatt atttatataa gtgagatnnt tagtagatac gtcttttttg 240  
 tggaaaattg aaacgtgagt ggaatgtaa gagatgtttg tgttatgac atattaatta 300  
 atcatcgaga atgtgaatac tattcatttg agtatatgta aaaaatattt ctctattcgt 360  
 atgatattat ctgggaaata gatttgattg tatttttttag tggccctgaa tatctgagca 420

tattttttaat a

431

<210> 7636

<211> 174

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7636

atgcaattta acatctaact gtcceaagta aagattcttt gcagctataa tactcagaat 60

aactctaattg gtagtcatct ntacaactgg agagaagaat ctctgtgaaa taattccttt 120

gttctgctga aaccctntca ccacaagtct cgctgatataa cttcttctat catc 174

<210> 7637

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7637

agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60

ttcacccgac gaagacactg acagaaactt atcttctcct tcttggacaa agtatggcag 120

gctgggggca agtaaatattt cttcccatca gaccttggat gcaactgtga tcgtatgccc 180

atatcagcta gatcttgacg ggtattcaag ccatacctcg tcttgccttg aatgttaagg 240

agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300

ctaactgcaa gatcagacca gtttggaaga tcaaagaaaa tggacctctt tttccacatg 360

caactcttac ttttatcctt cttttaggtc ttcccaaaac aatattcagg tgtngaaccc 420

gctgatatac 430

<210> 7638

<211> 465

<212> DNA

<213> Glycine max

<400> 7638

agcttattag aagggccata ggtattttat tgatttgtac agaaaattaa acagttgcat 60

aaaatttctt ggaaaatatt tttaatagta tagttaatat tctaagtaaa aataaagctt 120



ctatacagtt tttgcaatta ttttttggcc aaaaatgcaa ttctagttag tttgatgata 180  
 cttttttggg gctccatcca gtctagaaaa ttatttaaaa atcgtattaa gatagtactt 240  
 gacttttcctt tatatttttaa aataattttt tatggctgaa atataatttt tgttcaacta 300  
 tttttatcaa tcctcaattt aggtattcct agtttagaaa tgagactttt aatcctctta 360  
 ttttacaaaa ttagtagttt tggctcctcca tccatatcaa tgatttgact gttaaaaata 420  
 catggactgt tataatttaa ttttttaatg aagtgaatat attta 465

<210> 7639  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7639

agcttagcac tagatcggat ggaccttttt atgtctcgga gaggatcaat aacaattcct 60  
 ataggtcaga cctcctaggg ggaggggatg atgcaatcct ccttaggaag ggccagtcac 120  
 tatagtcatg agcaagaggc tccaagagga ttgggctaga gttgctaaag aagaccctag 180  
 ggttctcatg aacctcagga tagatttttg agcccatggg ccaagggttg gtccacttat 240  
 ctttgtacat attagactag gttttcatta tttttgggcc ttgtatttag ggctccataa 300  
 tgtaggtaag gtactggcgc ttcatgactt ancctctttt tcacctgaaa ttgcacagat 360  
 ttcatcatta aatccaatgg aaatattcta gagacaactt taacaataga acaagattta 420  
 tttacagaat cactacaaaa taaccataaa tttggggaac ta 462

<210> 7640  
 <211> 569  
 <212> DNA  
 <213> Glycine max  
 <400> 7640

cagcttataa gccattttca ctatgagttt attattacat ttattaatcc caaagaaccc 60  
 tgaaacttca tttatataca aaggcattgg atacttatta ccccccccat cgaagagaat 120  
 gaatacaaaa atgttgaggt tccatccaat catttaactg cttcaaggag aaccaaaaact 180  
 agctagggag aaaccataga agtttttttt tccaaagaat ttgattcctt ccaaacaatc 240  
 gaggagtata ctttagaaag taaaatataa agttaaaata tataatcagt taaaaaatta 300

acagtcgaaa ttatgataaa tacatgcaca cacatatata acaaattata taattgttta 360  
aattaggtta taataagata catgcgtata taaaacaaat cataaatata attgtgtata 420  
catttatctt atgaatttag tggtaaaatg gttaaaattt ttacatact atgatagaaa 480  
aagcaacaaa tttattatat atttatttgt aaatgaataa taaataataa atcgcggggtg 540  
tatttatata tatatatata tatatatat 569

<210> 7641  
<211> 534  
<212> DNA  
<213> Glycine max

<400> 7641

aaatcacaat attctataac ccaaattggtc aggctagttt gcataagggtt attgaagcaa 60  
acactattac catttggttg cgcatgttct aaaaaacaa aactaagcat ataatgagta 120  
gctcactcta tgattagtta aggctcgaat tctcacaaaa ggaaacgtat ctgatcttct 180  
cttaaaagac attgtatcta taagataata tttgtgaaaa caatacatta actagtattt 240  
taaccgtgaa atttatatcc atttaaagggt gaactaaaaa tatgtaaatc catgataacc 300  
aaattattga tacatgttaa ttaattaata ataaaattgt ataaatttaa tttaaatctt 360  
gaaagtacat ttttagtttt attaatttca gtaataaaat aatattttta taattttata 420  
agataaaatg gaccctaatt cttataggga ttaattttta ataataagta aaaaaatctc 480  
aattttggaa attcgaaatc ttaaacccta aatttcctac cctttgacaa tggg 534

<210> 7642  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 7642

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tcataagttt taactcggat gtccgattca ggagcttcac atatcgagat gcacgaaatt 120  
gaacaatgga agctctagag aaattctaatt ggtcataaat tttcacacgg aggtcctatt 180  
caggcgctta atatatccag acgctcgaaa ttgaacaatg gaagctctcg agatattcaa 240  
atggtcataa cttttcactc ggatgtgcga ttcagggtgta tcacatatcc agacgcttgg 300

aattgataac ggaagctcta gagaaattaa aatggcatta ctttttacac g 351

<210> 7643  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 7643

agcttggcac caagtaaacc tcttttcttg aattatgtcc aaagtatatt tacgttggca 60  
taagaatata ccacttggat tccttgcaac ttctacacca agaaaatact tcaggggtccc 120  
caaatctttc atgtgaaagc acttgctgag atatacttta aatttttggga ttgtagtgga 180  
gtcattccca cacacgatca aatcatccac atacaccaa actaccagtt gcactccatg 240  
attaagaaga gtaaagagcg agtggtcaga ggatgattgt tgaaacccaa aaatcgtg 298

<210> 7644  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 7644

agcttgaagg caaactggat gcgttggta acttggtaac ccagctggcc ttgaatcaaa 60  
aatctgtacc tgtcgcaagg gtttgggggt tgtgctctc tgctgaccac catacagacc 120  
tttgccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gcagcaaata 180  
tatacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240  
tttccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tgggtccagcc 300  
ctcagcaaca acaacagcag cctgctcctt tctttcaaaa tgcttttggc ccaagcagac 360  
catacatt 368

<210> 7645  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 7645

agcttcctta agaagattcc taaagaagct tgagcttagc tacacatacc tttctaatag 60  
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcaccc ccatgacaaa aaacatgaaa ataaaaaaaa aagtccttat tacaaagaca 180  
 actcaaaatg ccctgaaata caaggctaaa accctatact actagaatgg ccaaaatata 240  
 aggccataac gaaggaaaaa cctattctaa tatttataaa gataagcggg ctcatactta 300  
 gcccatgggc tcgaaatcta ccctaaggct catgagaacc ctagggcctt tccttggatc 360  
 tctagcctaa tctacttgga gtcttctaac caatgccctt gcggg 405

<210> 7646  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7646

agcttttaac tgaatttgca acgttccttt tgatntttta atgggtgtaat cgattacaat 60  
 atattggtaa tcgattacta gtgtatctta acgttgaaat tcaaatttaa gtgtgaagag 120  
 tcacatcttt tcataaaagg cattgtgtaa tcgattacat gattatggta atcgattacc 180  
 agtgacaagt tttgaataaa aagtcaagag atgtaactct tgacatgatt ttctcaaaat 240  
 tataactctt ctaatggttt tcttgaccag acatgaagag tctataaaaag caagaccttg 300  
 acttgcatte aaatatcttt tgagaacttt tgaacttctt tgacaacttt tgagaaatct 360  
 taaacctttc ctactcatca ttcttcttct tcttcttctt ttggcacaaa agctttctta 420  
 agtttctggt tttcaaactc tgttcttcta cagaaaacaa aaggggccaa atcttttcaa 480  
 tctcttct 488

<210> 7647  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 7647

gctattaagc ccaatcaaaa ccctgtctgt tccaaaccca cacacaatcg cggcccacgg 60  
 tttcacaacg gcacagcccg atgtaatggc agcgaacccg ccaagcaggc cgttacacac 120  
 gtcaatcacg ttccagtggc cagccaataa ccgcttgctg aacaacgtcg tcagagccgc 180  
 agtgctccca gccaatgtcg tcgtgacagc tgtcctccct atagcgctcc attgaccata 240

ataccctcca cttccatacc ccttggtat tgtcagaaac gaaccagggt tgaagccgta 300  
ccagccgaac cataacaaaa acgaaccaag cccaactaaa gacgcgtgt ggccacgtaa 360  
agcaaccgac cggccgaacg gtcgaaccgg gcgattctcg ggcctttaat taaagccc 418

<210> 7648  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 7648  
ttttccacac tttttggggt gggccattct tggaatgcct tgaatttctc aaggtccact 60  
tggaccccat ttctaccaac taccaaacc tagaaaaacta ttttatctac acaaaaggta 120  
cacttctcta tatttgcata gaggggtgtt ttcctaaaga ctgaaagaac atgtccgaga 180  
tgtcctaagt gatcatctag gtcctacta tacactaaaa tatcatcaaa ataaacaact 240  
acaaatctac ctatgaaatc ccttaagaca tgatgcataa gcctcataaa ggtgcttggt 300  
gcattagtga gcccaaaagg catcactatc cattcataca aaccaaactt 350

<210> 7649  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 7649  
caacaacaga ataattatga catttcaagc catagatacc atccacgctg aaggaatcat 60  
ccgaatctga gatggacaag tcctccacaa caacaacagc ctatccctcc ttttcagaat 120  
gctgctgac caagcaagcc atatgtttct tctccaatgc agctacagca acagcagtta 180  
caacaaagac aacaagtaac tgacgctcct cctcaacctt ccttataaga gttatgggag 240  
caaagacca tccagaatat gcacattcaa caagagacaa gagctttcat tcagagtctg 300  
acaattagat ggtgcagata gctactc 327

<210> 7650  
<211> 451  
<212> DNA  
<213> Glycine max

<400> 7650

ctcagctatg ttgcaacatt ataatagact ccctcagcag cataaccaac aacaacagaa 60  
taattatgac atttcaagca atagatacaa tccaggttga aggaatcatc cgaatctgag 120  
atggacaagt cctccacaac aacaacagcc tatccctcct tttcagaatg ctgctgatcc 180  
aagcaagcca tatgttcctc ctccaatgca gcaacagcaa cagcagtcac aacaagaca 240  
acaagtaact gaggctcctc ctcaaccttc cttaaaagag ttagtgaggc aaatgaccat 300  
ccagaatatg caatttcagc aagagacaag agcttccatt cagagtctga caaattagat 360  
ggggcagata gctactcaga tgaaccaagc tccgtcccag aattctgata gattaccttc 420  
tcaatctatc cagaatccca aaaatgtgag t 451

<210> 7651  
<211> 431  
<212> DNA  
<213> Glycine max  
<400> 7651

gatggtgtcg agaagaaata acatgtttgt catcatttaa aagggggaga atgtgaatgt 60  
atgtatacat gattttgatg atgtcaaaga agaatctaac aaggctactt caaatgataa 120  
gcatttgctt caagaataat tcaagattgc ttcaacaaac aaatccttgt ttcaagattc 180  
actaaagacc aagccttgcc ttataacaaa gtgctttcaa gacatgcaag gctctggtaa 240  
tcgattacca cgaagtgtaa tcgattaccc gaagacaggg ttgagaaata gctgttgaaa 300  
aagggtttga atttgaattt tcaacatgta atcgattacc atatgtctgt aatcgattac 360  
cagcaacgaa actttggaga ttcaaattca aaagtcataa cccttcagat tataactgtg 420  
tgatcgatac a 431

<210> 7652  
<211> 467  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7652

tcacgtgctn tagccacgat gcattcttga tgattntctt gatggcgagg aagagtacct 60  
gcttcagatg ggaatggctt ctgggcaccg caccttccat atgggttcca tgagtgcacc 120  
tctctattgc tottcattct gggtgcagtc gccgatgccg tttcaggttt ctacaagaca 180

aagattttgc ttaagtcacg tgatctctaa tcacattttt tatttaacaa ttaataaaaat 240  
 taattntttt tacaacattc aaaaactgtc acaaacttat aattaaatac aatattttatc 300  
 aaatgttgge ataacttatg ttaaagcctt tntgtaatat ttttaaattt taataacatg 360  
 aactatatat aacatttaat aaaatatcac aaaaataaat taatcatatc tatctataat 420  
 tngataatat ctttntaatg tgatcaaaga ttttaacaat atgttta 467

<210> 7653  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7653

tgtgctctt cacgtctaga atatgaatgt agcatatatt attctaagac ccttaggtgc 60  
 tttgctgatg gcttcttcct gttccaagct tcaattggag tcttgtcttt tacagactta 120  
 tttggacatc tgttgagtat gtaaacagca gtgtagactg cttcagccca gaatgtgtta 180  
 agtagtcctt tttccttgag catcgatcta gccatctcca taactgtgtg attctttctc 240  
 tcgggcactc cattntgttg aggagaatat gcaattgtaa gttgtctctc aatgccttca 300  
 ttctcacaaa atctttcata ctgcgagag gtgtactctt tgccgcgatc acttcgtact 360  
 ac 362

<210> 7654  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7654

cgtgacattt gtcagcatca gaagtatagt gctacctctt ctggaggatt gctgcaacct 60  
 cttcctattc cggaacaggt ctgggaggat gtatcagttg attttatcac agggttgcct 120  
 tgttcgagag gctatgaagc tattctggtt gttgtggaca ggctgaccaa atatagccat 180  
 tttgttccat tgaaacaccc ttatactgcc aagggaattg ttgagatttt cgtaagggaa 240  
 gtagtgaggc tacatggagt tccaaaatct ctcgtagtg atagagatcc tttatttatg 300  
 agtttgtttt ggaaggaatt ttttaagtta caggggacaa tgctcaagat gagtacaact 360

tacctttccgc anacggatgg acagaccana gtcacaaata ggtgtcttga aacctatatg 420  
cgttgtntca ttactgacc 439

<210> 7655  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7655

agatactaag ctttaccttt cattntaacc cttagaactt tctggccaat attgtcatag 60  
ataaagcaat gttgatgttc aaaggacact ttaaaccctt ttttaataca ctgacctaca 120  
cttagcaagt tttgggtcaat gttagggtaca taaagaacat ctgatattaa tttgggtacct 180  
gaacacgttg aaattgcaac agttcctttt ccttttactg gaatatagcc accattccca 240  
attctgacct ttgagacatt agttggcttc aaatccttga ataaagtctt atcatatgtc 300  
aggtgggttcg tacaaccact atcaatcaac caacttccac ttgattcact actcaagaag 360  
catg 364

<210> 7656  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7656

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60  
tcttctatct tcagattggg aatgcctcta acagcacttt tgtcaaggat tttcttcatg 120  
cctcttaagt gcagatgtcc aaacctttga tgccatattc tgacttcac tttctttggag 180  
gatagacatg tagaggagta gctgggtttct tgggggtgtcc ataggtaaca attgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgactnt 300  
gtgaagttta cattgaatcc ttcacacac agctgactga tgctaataca gtttgcagtc 360  
agtcccttca ccagcagtac 380

<210> 7657  
<211> 435



<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7657

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 ccagatacaa tggcttctta gaatcagttt ctaatttttc ataataaggt gcatgcgctt 120  
 gcgtaaaatc ctctttccca agatcgcgta acatgtcttt tatacgatct ctcaattgta 180  
 catgaactgc ctcaagccaa gggattgggtg acatttgggtg taactcacca tgccatatcc 240  
 attttgtata agtagaactg ataccgtcac atatatgatg tgctctaattg tcatttaattg 300  
 gctgttgtct cccattcaga catttaacac atggactaag atattttcca cccatttcta 360  
 ctgcattatg tngcacaaat agcaagaatt ctccaactct attctcatac tcgtcactta 420  
 ttcattgctgc tctca 435

<210> 7658  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7658

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 attgtttaca gcatgaccgg ttactttcaa cccctcttga acaataaggt ttaaaatgtg 120  
 agcacaacat cgtatatgaa aaatacacca ccacttacta aacaatgcat gcaaaaaaag 180  
 tctttacctc aaatagtctt gcattttatc attcgaagaa acaatatcta gagttaatga 240  
 aaatattttc tgctcaatcc cccattcttc caaaaaaacc atatataact ttagtcatct 300  
 cacgccccaa gtgtggagga ggaaaatgag aaaaattaag cattntacta ttcaactttc 360  
 aatttgcattc aacataatgt gcagttattg aaatataacc ctcagaagt 409

<210> 7659  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7659

ngtctaccag gtgtgcttgt attcccaata tcagctgact ttggcaaaac aaaatcaaaa 60  
 taagaatgtc tcttgctctt cacgcatggg agcaatatca ccattcctat cattaataat 120  
 ggagtgtggg tccttaacag tatggacaac ctgagtgatg gaacccatag ctttcttctt 180  
 atgactagct ggtaaataaa attaaatgat tatatgtgaa tgcagaatct cacacactac 240  
 taaaaatggc tcaacatatt accatcataa caaagtaatg atttacgtaa tccattcggt 300  
 cgtaatgcct ttctattcat gccttctgtg tacttgctca cctcaacctg cattctgtag 360  
 taataactgt attaagcatt aaacaaattt aatactgtac aacctttctc catgagagca 420  
 catatcta 428

<210> 7660  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7660

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 gcagattatc tgtgagtgtg tgaacagatt aaacaagtaa ataacacaag agaattggta 180  
 acccagttcg gtgcaacctc acctacatct gggggctacc aagccaggga ggaaatccac 240  
 taaaatagtg ttagttcaag gtctaacagc cactgtttac aaccttctca cctaaccact 300  
 acccgtgcga cctctaccta agagccactc ttagatatga gaacccctct cactccctct 360  
 caaacactct cccgtgttta caattaaatc aaggacactc cagagaatgc tctctgaaca 420  
 aaagagatca actc 434

<210> 7661  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7661

agctgccaat cttgtgcaga agcttctctt gttactgctt cttgagaatt ttaagatatc 60  
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cgctattgtg atgttcattg gtatgggtgat aaagtactaa ggaacatcac tagctgtgct 180  
 tgattgtcct tgtacaatca ctaatatctt ggtcatctaa gaaacaaagc acaattgcac 240  
 cgtcaacctc aaaagctgag tatgtctcag cagctgtttg ttgctgtcaa atcatcttga 300  
 tcaagcaaca aatgtttagat tattcaactag aataggctaa aatatgcatt tgggtgtgaca 360  
 acacgagtgc cataaaacca tcgaagaatc caatccaaca ttcaaggtcc aagcacattg 420  
 acatnaaaca 430

<210> 7662  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7662

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 tcattctttg attgaacttt gagctttttg tcatcacctt tgtcatcatc tttgttatca 180  
 tcaaaacatc tttgaaccaa tcttgattca tcatgaagct ttgcttctac accaagggca 240  
 ttggatagaa gactccaaga agattggggc agagatgaaa gagaaggccc taggattctc 300  
 atgagcctta nggtagattt tgggcccacg gactaagtat gaacctactt atctttgtac 360  
 atatcagatt aagggttcac tatttctggg cttgtactta nggctccata gtgtaaggag 420  
 ggtaccctag taatgt 436

<210> 7663  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7663

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 aggctattgt gatgttcatt tttatgggtga taaagtagaa aggaagagca ccagttgtgc 180  
 ttgttaattt cttggaaaat cactagtttc ttgggtcatct aagaaacaaa gcacaattgc 240

cccgctcaacc tcaaaagctg agtatgtctc agcagctggt tgttgctgtc aaatcatctt 300  
 gatcaagcaa caaatgttag attattcact agaataggct aaaatatgca tttggtgtga 360  
 caacacgagt gccataaaac catcgaagaa tccaatccaa cattcaaggt ccaagcacat 420  
 tgacatatataa cac 433

<210> 7664  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7664

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 tctctcatgc atctcatggt tttgatttac ttcatatgga catatggggc ccgtgttcaa 120  
 aaccatctat gcatgggtcac aaatacttct taacaattgt cgataatcat tcacgattta 180  
 catgggtaca tctcatgcat aataaagctg aaacacgacc cattatcatg aatttcatta 240  
 cgtccattga aacccaatat gatagcaaag ttaaaataat aagaagtgc aatgggcctg 300  
 agttcatgat gcatggcttc tatgcttcaa aggggaatagt gcatcaaacc atgtgtgtag 360  
 aaacgcctga acaaaacggc atagctgaac gaaaacatca acacttactt aacgtcacac 420  
 gtgc 424

<210> 7665  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <400> 7665

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 gttgttgagc ccagatacgc cacactgcta tttaaacatg aaggctgcac gagttttcta 120  
 ccaagtccga gattgaagag ttattttgtg agttttggga cttgagtgtt ttgtgagcca 180  
 ccttgatggt actetaacat caagtgttgg acctgagtggt gtagagttga tctcttttgt 240  
 tcagagagca atctctggtg tgtatttgaa ttaattgtaa acacggcagt gtgtttgaga 300  
 gggagtgaga ggggattctc atatctaaga gtggctctta tgtagagggt gcacgggt 358

<210> 7666  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 7666

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 gagtacaaaa ccatctatgc atggtcacaa atactttcta acaactgtcg ataatcattc 120  
 acgatctaca tgggtacatc tcatgcatag taaagctgaa acacgaccca ttatcatgaa 180  
 tttcattacg tccattgaaa ccctatatga tagcacagct aaaataataa gaggtgacaa 240  
 tgggcctgag ttcattgatgc atggcttcta tgcttcagag ggaatagtgc atcaaaccat 300  
 gtgtgtagaa acgcctgaac aaaacggtat agctgaacga gaacatcaac acttacttaa 360  
 cgtcacacgt gcacttttgt 380

<210> 7667  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 7667

agcttcatgc ttaagtatgt atggcaaadc ttcattactg gggatcaaca catacaagtg 60  
 agcttgtaac acatgttcta gacttggagt tatcacatgc agtcctcttg aacccttacc 120  
 acccaccctg tcatcatgcc gagactcacg aaggccaaca agtttagcct tctcaatgta 180  
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttctgg 240  
 acgatataga ttctttgtat acccttttaa gatcttcatg tagataaaca ggaccacaac 300  
 atttgatttc tctgaacaga tgcacaatca agtgaatcat ggtgtcaaag aaagtagggg 360  
 aaaaata 367

<210> 7668  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 7668

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 ttccaaacaa agtcagggtta gcgataactc gcctgtgctt tttcttccat gctatattta 120

gcaaagtcac tgatccagtc atgtttgttg agttggaaaa tgaggccaca attatactgt 180  
gccagttgga gatgtatctt cccctgtgtt tctttgacac catgattcac ttgattgtgc 240  
atctgggtcag agaaatcaaa tgttgtgggc ctgtttatct acagtggatg taccgggttg 300  
agcgatacat gacatatcta caacgggtata caacgaatct atatcgtacc atatcatcta 360

<210> 7669  
<211> 353  
<212> DNA  
<213> Glycine max  
<400> 7669

agcttatata ttaaagtgtt ctgagtatct ataagttaaa ttacataaat taatatataa 60  
atcatttaca taaatcattt tatgttatct atacacattg cgtaaattta tactaatata 120  
taaattatct aaaataatta aatattgaaa tgggtattaat tttctaagta ttataaaaata 180  
atttacatat taaaaatttt taagtaattt ttattaacta ctttcaataa tttatatataa 240  
taatttacat attaaattat gtgactatat tgattaatat aattagaata aaaactatct 300  
tttaaagtag gttttatagt ttaagggtat gttagcttct taaaagtaat att 353

<210> 7670  
<211> 435  
<212> DNA  
<213> Glycine max  
<400> 7670

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aaaatgatta caatttcttc attctattgt taattctaata gaaataatga agaaattaat 120  
atctttgtaa ttttttatca acagaagttg aaagaagaag attccaaatg ttttggagga 180  
aaattgatgc aaaaactgga atgtagctct ttcttattat ctatttaatg caatcttggt 240  
tctatttctc tttatgtgcc taatgggttg atatgggtctg gtcatttata tagcatgtag 300  
gggattatgc aataaaaaat agttattttc taaagaactg aaaaatggta tctaaatgaa 360  
atcattccta gaaatacatt gatattcatt taacgcattt catgcatcta tattcgtaac 420  
gcgatttatt atttt 435

<210> 7671  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<400> 7671

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 agacaccttt ctcttgcaaa ttggattcat gagatgcact actgaatatg gtgtgtatgt 120  
 taaaggagaa agtctttcag ataccctcat agtatgttta tatgtggatg atttactgat 180  
 aacaggaaag gattgcagtg ctatctcgac attcaggcaa gtgatgaagt ctgagttoga 240  
 aatgtcagat cttggagaat tatcatatct tctgggcata gagttcaaga ggacaaaggc 300  
 tggaattttt atgcacaaa gcaaatacac aattgatgtc ctaaagaggt ttcagatgct 360  
 tgactgcaac tcagtttcaa ctctgttga aactagtgtc gtgctggatc aatctgagct 420  
 tgataaattg gtggataaga ctatcgtcac acaaatgggt ggctgtttga tgtatatatg 480  
 caata 485

<210> 7672  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 7672

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 ttgattgtga tggcattcaa ggcctgttaa tctgtgcaaa atctccaagt gccatccttc 120  
 ttcttgacaa gaatgattgg agatgaaaat gggctcgtgc taggggcaat aatcccttcc 180  
 ttgagcatgt cagctatcat tacttcaatc tgatccttcc ggctgtgagg atacctatat 240  
 ggcttgactt ttactgagcc aacaccttca accaatggga ttgaatgatt gcgaattttg 300  
 ctagggggta atcctgatgg cacatcaaact actgttctat aagtgtaaag tatcatggcc 360  
 agttctagtt ccatatcaac cgggatatct aataattgat cctgaggacc atccaacctt 420  
 gagta 425

<210> 7673  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        7673

taagaatatt ntcctttatt atatagattt tatgaatttt catttatata attntaatta    60  
agttaacttc aaaagataag attgagaatc tccttaatta gttntgaaat tagataagat    120  
ttataaaaga tgtaaattgg tttagtagat aaaattctag atttttgtaa gtgccttatt    180  
aataattaat aattgattat ctaatcgata ataaatgaat ttatcactgt atgtgggcaa    240  
tcaattacaa caaaaagaat ttttaattgat tattttgtgg gataatcaat tagtggagtt    300  
ggcaattgat tgttcattct atattatccc aaaactagtt ntccataaat attatcaaag    360  
agcacttaat caatcctaat tgtacattnt ataaatagat ntatcaatgt ttaac        415

<210>        7674  
<211>        420  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        7674

taatcagttc anaactaaga tattgttgaa ctggtaatct tttaacaggt cctgtaattg    60  
attactagag agaaaatgaa catggccttt tgaaattntg aactgggtgga ataacaacac    120  
anatttattt gaattatgat atgtgtaatc gatgaccaga atactataat cgattaccag    180  
caaagacatt ttagaaaaac tctgagaagt catgactctt tagaaatata actatgtaat    240  
cgataaccaa aatcctgtaa ttgattatca gtgaaaaagt ttcaaaaaat gttttgaaaa    300  
gacacatctc ttctaactgt ttttcaacag gcacaatgag cctatatata tgtgtgtctt    360  
tacttcgaan aagagagaga gagagagatt ntctaagaga acttaattgt caaattctct    420

<210>        7675  
<211>        399  
<212>        DNA  
<213>        Glycine max

<400>        7675

tgcattgtgc tgcttgcaac accacacctt atttgttacc attttcacac cacgtgcata    60  
gctctaacgc ctgatctcta ttctatttag ttgcacgagt gatctctgta gtcttattaa    120  
cccgggggtg tgggcatgc atctttctag gactctttcc aagttgttga ggcattgacat    180



gaacgaatct ccaaatatag aaaaatcatc aataaatacc tctatgcatg ttaataccat 240  
 gtcaaaaaaa gatggcattc atacaccttt ggaatgtgga tgggtgcattg aaaagtccaa 300  
 ggggaattct ccgataggaa aaagactccg aatgggcaag tgaaggttgt tttctcttga 360  
 tcctctcgat taataagaat ttgattatac cctgagtat 399

<210> 7676  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7676

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 canataagaa aattaaattg aaggaaatta atatattaag attcaacgat aaatactttc 120  
 aatgcacttt tagtttaatt atttattaac tctctttaat tgaaaataat atagttcgat 180  
 ttaatatgta catgttttgt gccatgtaa tattaatatt gtgtgatgtt tatatgattc 240  
 atgagatgtg ataacatgtt tcattgagat tataacattg tgattgaaaa taaatataaa 300  
 tgtttgatta atacttgatg tgatattact tgtgttgtga cttatgaatt gtgaattata 360  
 caataattcg actggtgttt actttgagaa aaatgtttat gtgc 404

<210> 7677  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <400> 7677

agcttctggt gggacatctt gacttgctct caatctgaca ttcaccacag attctgcctt 60  
 cttctattat cagattgoga atgcctctaa cagcaccttg gtcaatgatt atcttcatgc 120  
 ctcttaagtg cacatgtcct aatctttgat gccatattct gactttatct tctttggagg 180  
 atagacatgt ggaggagata ctggtttctt gacgtgctca taggtaacag ctgtactttg 240  
 atctgtgcc cttcattaca acttgactgt tctcatttgc tccaagcatt ctgactttgc 300  
 gatgttacat tcgtattctt cataagacat ctgactgatg ctgacctagt tcacataact 360  
 tcacctcttc ctcatcact attcactttt taattatcaa 400

<210> 7678  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7678

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 ttgagattgt gatagataag atgatatctt ctcttgcaac agttgttact cgagagcaag 120  
 tattggatga ttctattagt gggaaaatag tttatattga ggaaggcact atccatttaa 180  
 ttgaaaagta taatcagatt ctttctgaaa tttatcaact tgggcaatct ttctctgagg 240  
 taggcttgga tactaacgag catgaatacg ggaacatact cgctgatgct cgtggtgggt 300  
 tactggagct caaaaaaag gaaacagaat tggttgaaaa actggctcat ttataagatg 360  
 agaatcagaa aatgggtgat gagcttgaca agggataggt gatgataagg acattaaata 420  
 ctgaacttgg aaatctgana atagaactcg a 451

<210> 7679  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7679

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 tcgtttgaat ntgctcagag gttcaacatt caatttcgag cgtctcgata tgttatggga 120  
 ctcaatcaga tatccgagta aaaagttatt gtggtctgaa ttggctcaga gcttcaacat 180  
 tcaatttcga gcgtctcgat atatgacggg actcaatcag acatccgagt aaaaagttat 240  
 tgtcgtttca attggctcag aggttcaaca ttcaatttcg agcgtctcgc tatattacgg 300  
 gactcaatca gacatacgag taaaaagata ttgtcgcttg aataggctca nagcttcaac 360  
 attcaatttt gaggggtctcg atatattacg ggactcaatc agacatccga gtaaaacgt 419

<210> 7680  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 7680

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atgtangaga gtaagggatg ctgggtgacc atatcggttg tgccataatt tgatggatga 120
attggaacaa atgaaggagg cagatgggtt ggggtgcagtt gggttaaact tgtacacatt 180
gtcttcattc aatccttgca gaagaagctc cctcgttcat aggtccttta ccttcattca 240
atccttgcag aagaagctcc ctcgttcata ggtcctttac ctcaaaatgc ctaaganaaa 300
attcaatgga aactatgtta gtttggcaca gatgatagac ggatattcat atttgggtga 360
catttgaac ataaagaata tttganagcc ttaaaggaga accattagtg ggaatattgg 420
tggagccaat ataagtaata ngaagttgat tacc 454

```

<210> 7681  
<211> 230  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7681

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agtattagag gatggcatgg ngttgtggga cgttgtcgta agacctctgt ctggtcagcg 120
gtgccataac aactctgcaa gcaaaattaa tcagcaattg aaatctatgg aaataggaag 180
gaaaaaaga gatagagata cctatgggac agatagaatg tgcccatctt 230

```

<210> 7682  
<211> 254  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7682

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gctctcgata tattcanatg gtcttaatct ttcacatgaa tgtccgattc nggcgcataa 60
tatgtcgaga agctcgaaat tgaacaacgg aagctcttga gaanatcana tggtcataac 120
ttttcacacg gatgtccgat tcaggcttat aatatatcga tacgctcgaa attaaacatc 180
agaaactctc gcgaaattta catggtcata actnttcaca cggatgtcca attcaggcgc 240
ataatatgtc gaga 254

```

<210> 7683  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7683

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 gacccattct accactacaa acctaagaaa ctatatatct acacanaagg acatttctct 120  
 atatttgcatt agagggtgtn ttcctaagga ctaanagaac tngcctgaga tgcctaagt 180  
 gatcatctan gctcctaattg tacactanaa tatcatcaaa atanacaact acaaactctac 240  
 ctatganatc ccttaagaac atgatgcata agcctcat 278

<210> 7684  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7684

aaatattttt attatggaga aatagaaatc tattaactaa tatgattatt tattgacttt 60  
 attatcaaac ttagttagt tctacattac aatattattt aatattacac atatttttta 120  
 ttgttcatta tacacgcatt taatcattta ttctatattt ggataagtct caaacgaata 180  
 nagtcattgt taaaacaaac aatagtgtaa ttaaactaat ggacaaaaaa ttaatagact 240  
 aattattttt gtttgagaga tttttgcgga gtattttatt atttgagtgc tttcattagt 300  
 cttaatattt tatattttaa agcactatat aaattttggt aata 344

<210> 7685  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7685

gtctaaacca ttaaagtatg tgttcttgga ggtgacacc anacctatag taatcagtaa 60  
 tgcactaaca tangaagaag agaataaggtt ggtggacatc ctgaggaagc ataaggaagc 120

aatcagatgg catatatctg acttgaaggg aatcagtcct tcgtactgca tgcataagat 180  
aatgatagag gacgaataca agcctattcg acaacctc 218

<210> 7686  
<211> 243  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7686

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atacttanaa gcaaactn ttcaagtntc anaactgtat ataaagaatg tatacttaca 120  
gtattctntg tcaatacatt aagtgaatcc tcatgaaacc acaatcgact gcgcttccca 180  
ggtttctttg ttgaactttc acgaattatc tctcttccca tgtctcgtag taatggatgc 240  
att 243

<210> 7687  
<211> 248  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7687

actttcatat tcttcaccaa tccagccaat gtatgatata tgccctcaat ntcaggatgt 60  
gacanacaac caacaagata ttcatgtaca gctccatcca caataatcca actacttntc 120  
ggttgcttct tgacccctt ctctttcatt tccagccgca gctccgagac atcactccat 180  
tgattatcag atgcaagtgc attagccaac ataacatagc ctgcagaatt atctgggtct 240  
acttcaac 248

<210> 7688  
<211> 321  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7688

tctgaattct gttctatgct cagaatcaga ggttcacgt gcttctgagg atgtgtnggt 60  
ccagaaaacc aggcagccag ggacaaagag acaagtcgaa gttgatntag atttcacaag 120

ttttgtcgag aaaaaaatat ccgatatctt ttctcctccc aggaatccca natcattaca 180  
gctacctgag aatataccac ctagcattac anaacttcca gaggactgcc actatgaacc 240  
agaggatctt gtcaatntat nntctttgcc ttatgtaaag ggtatttatt anagtataga 300  
aatttagttc anatatctct a 321

<210> 7689  
<211> 254  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7689

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ggcccttcca tgcagcaacc tggagcaatn gaggcctg aagcttatgc tgcanatatt 120  
tacaatagac ctctcaacc tcangcagca aatcaaccac agcagaacaa ttatgacctt 180  
tccagcaaca gatacaacc tggatggagg aatcaccta acctcagatg gtccagccct 240  
cagcaacaac aata 254

<210> 7690  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 7690

agctttaaca accatatgat gaaacacttt gttatcttgt actggtttgg ttgtgtttgg 60  
cactccttaa attatgacaa atgatgtagt tccatgtaga gcttgtaggc cttggacctt 120  
cttcattaat ggagtccttt tcttctagaa gatcaatggc agtggaatgg agaaggagga 180  
aaggtcattg aagatgccac ttcaaggaga agatgagtca agaacaagtt caccaccata 240  
ggaaaccatg gataagagct tgaaggtagg agaagatgag tagagggaga gggagagagg 300  
gggccacaaa atttatgcct catatgaggt ctgaaaattg aaggataatt tcctcaatga 360  
tcaaa 365

<210> 7691  
<211> 482  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7691

gaatgcacta ttcaatggag ttgacaagaa catcttctta cttatcaaca cttgcacagt 60  
ggccaaagat gcatgggaga tcctgaaaat cactcatgaa ggaacctcca aagtgaagat 120  
ttccagattg caactcttgg ctacaaaatt cgaaaatctg aagatgaagg aggaagagtg 180  
tattcatgac ttccacatga acattcttga gattgccaat gcctgactg ccttgggaga 240  
gaggataaca gatgaaaagc tgggtgagaaa gatcctcaga tccttgcccta agagatttga 300  
catgaaagtc actgcaatag aggaggccca agacatttgc aacatgagag tagatgaact 360  
cattggttct cttcaaacct ttgagctang actctcggtt agggctgaca agaagagcaa 420  
gaatatgggt ttcgtgtcca atgatgaatg agaagaagat gagtatgacc tgtatactga 480  
tg 482

<210> 7692

<211> 391

<212> DNA

<213> Glycine max

<400> 7692

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aaaaagttat tgtcgtttga attttctcag aggttcaaca ttcaatttcg atcgtctcga 120  
tatattacgg gactcaatca gatatctgag taaaacgtta ttgtcgtttg aattggctca 180  
taggttcaac attcaatttc gagcgtctcg ctatattacg ggactcaatc agacatccga 240  
gtaaaaagtt attgccaatt gaattgactc agggttctta catttaattt cgagggtctc 300  
gatataattac gggaatcaat cagacatccg cgtaaaaagt tattgtcggt tgaggtggct 360  
cacaagttca acattcaatt tccagcgtgt t 391

<210> 7693

<211> 294

<212> DNA

<213> Glycine max

<400> 7693

tctctagagg aagtatggac acttcattat tcagaaagtt tgggaaagga gatctgttga 60

ttgtacaaat atatgtagaa gacataatct ttggcgctac cataaaaaatg atgtgcaagg 120  
 gttttttctca gctaaataaa agtgcataatg aaatgagctt gtacggagag ctaaagttct 180  
 ttctgggagc ttataatcat gctaaaagag gatgtcatat tctttcatta agagaaatat 240  
 acaaagcccc ttcttaagag gtttcgaatg gatgaagcta aacatatggc tact 294

<210> 7694  
 <211> 565  
 <212> DNA  
 <213> Glycine max  
 <400> 7694

ctgcagcttt acttccagga atttctcttg ttaattcctt catctgactt agcatcaaac 60  
 tttcctaagt tttcttttcc attgtttaat acaaagcatt tgcaaccaa aacatgaagg 120  
 tgtgaaatgt tatgttttct accattaaac agttcatatg gagttttctt taaaatgggt 180  
 cttattaaag ccctattcat gatataacat gtagtattaa cagcttcagc caaaaatat 240  
 tttggaagag gagtgtcatt taataagggt ctagcaattt cttccaaaga tctatttttc 300  
 ctttcaacaa ctccattttg ttgaggggtt ctaggtgcaa aaaagttatg ttcaatgtca 360  
 tgcttatcac aaaatagttc aaattcttta ttttcaaatt caccatga tcaactctaa 420  
 tagatataat tttgagattt ttcttggtgt gaatcatttt ttcaagattc ctaaagctt 480  
 caaaagcatc attcttatga gtgataaata gtgtccaagt gtatctagaa tattccatca 540  
 ctataacaag ggcgtagtaa ctttc 565

<210> 7695  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <400> 7695

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 tgtattcatt cagagaaatt tcctttgggg aggtcatcat gaggccaaca agattccttg 120  
 ggtgaagtgg gacacagttt gcctttctaa aaataaaggg ggccttgagg ttaaagattt 180  
 gtctaaattt aatgaggctc tacttgacaa atgggggcgg gagctggcta ataattataa 240  
 ccaacttttg gcaagaatct taatctccaa atatggtggc tggaaggagt tgatctctgg 300



tggaagagc aaattttcct ctcataggtg gcaagaccta aaggttgtct ttcagcagca 360  
 gcctcaagtg gaggggggct gtggtcccaa aattaatttt ggaggataag ggctggggga 420  
 taattaactc tccagccaaa attcta 446

<210> 7696  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 7696  
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 atggtgtatt agaaaggcgt aatagaactt taatggatat gattaggagt atgttaatca 120  
 atttgacttt acctgtatct ttgtggatgt atgccttgaa aactgccatg tatttggtga 180  
 atagggttcc tagtaaggca gttccaaaga cacctttgaa ctttggacaa ataggacacc 240  
 tagtataagg cacctgcatg tttgggggtg tcaagcaaaa ataaagattt ataatccgca 300  
 agaaagaaaa ttggatgcaa gaacaatcag tggatatttc attggtgtcg caacatgccc 360  
 ttttgc 366

<210> 7697  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<400> 7697  
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 agctttcgtt gttcaatttc gtgcagctcg atatgtgata caccagaatc ggacattcga 120  
 gtgaaaagtt atgaccatat gaatttcttc atagcttccg ttgttcaatt tcgtgcatgt 180  
 cgatatgtga agcacctgaa tcggacatcc gagttaaacc ttatgaccat attaatttcc 240  
 cgagagcctc cgttgttcaa tttctagcgt ctcgatatat taagcgctg aataggacct 300  
 ccgtgtgaaa agttatgacc atttgaattt ctcaagagct tccgttggtc gatttcgagc 360  
 atctcgatat gtgatacacc agaatcggac atccgagtga aaacgtatga ccatctgtat 420  
 atcttcatag cttccggttg gaatttcgtg catctcgata tgagaagcgc ctgaattgga 480  
 catccgagtg aaaagtta 498

<210> 7698  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7698

agcttgtatg ttagacctcg atcggtatct ttcngttcga cgccgactgt catttttttc 60  
 gatcaatata ggtgaataat atttttttgc cgaggtgggc taatgttttc ctggccgaat 120  
 aaatgggaac atgccagttt cggccgaaac gaaacatcgg ttgagctcgc acgaaaaaac 180  
 ctagccgact tacattgtaa gttttttatg caacaccgaa aaaaacaaaa tttcccctgc 240  
 cgtaagaaaa aacattatcg gccagcgagc gcgggacttg aaattcaagc tccaaaaact 300  
 aacccaaggc aacaaggggg ttgaggagta tttcaaggaa atggatgtgc tcatgattca 360  
 agcaaataat gaagaagatg aggaggtaac tatggctcga tttcttaatg ggttgactaa 420  
 tgatatccgt gatattgttg agctgcacga gtttggtgga atggatgatt tgcttcacaa 480  
 agcaatccaa gttgagcaac aat 503

<210> 7699  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 7699

tcgattacac acatacagtt atcgattacc agtattttctt tttcaaaaaa tattctcaac 60  
 agtcacatct ttttatgtgg ttcttgaatg gctatcaaag gcctatatat atatgtgact 120  
 tgagacacga attttataag agtttttgga gaacaaaaag gtcttatact attaaaaagc 180  
 aaatcgtgtt atcctcttac aaattccttg gccgaattac atgtgattca ataaggaatt 240  
 atttgagtgc tcaaattggt cagactatct ctttcaagag agatttcttc ttttcttctt 300  
 cttcattctg aaaagggtt aagagaccga aggtctcctg ttgcgaaaga attcttcaca 360  
 caaaggaag gttgtccttg tgtgtttgga acttgga aaa ggaatttaca tgatagtgga 420  
 acttttaatc gggatgcttg gggact 446

<210> 7700

<211> 220  
 <212> DNA  
 <213> Glycine max

<400> 7700

tgagtgacta aggggggtcc acggatggcg gagttcctac ttgatccaac gatggcaaaa 60  
 atgatggtgg cttcagaaaa ttacaagcgc tcatatgata ttattttctat ggctgctatg 120  
 atctactgtt ggaaactcaa tattttactg cccaaaagat gaacatgtac atgccgacta 180  
 cgcatggatg ctttttcaca ctggaaatgt tcgagaccat 220

<210> 7701  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<400> 7701

agctttgatc tgcctctata ttttcaatct tttcatcctc cctccagata atgagtttct 60  
 ggtggagagt agatggcaca gcccgaactc catggatcca ttcccttcct aatagcaagt 120  
 taaaattagc cttggactgt atcaccagga atagagttgg tcgaactata ctgcctacaa 180  
 caacatctac ttgaatggct cccaaagaat agccagtttt gccctcataa ttcgaaagca 240  
 caatgttggtg ggcagataga tcagtgtcat gtttcccaat cttgtagagc atagatcgag 300  
 gcattaagtt aacagccgct cctccatcta tgagcacttt gttgattcca acattctcaa 360  
 cttttgccct gatgaaaaga gggttgagat gacttttcat tcgaaaatct ggcttttcga 420  
 aaaggcta atgtcttccac acagcattgg tctaacatag agcatactgg ctttgggtaa 480  
 gcatataaaa tgatcaacct ccct 504

<210> 7702  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 7702

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 agacaacatt tgttccattg cagaaagtca tgacttcagc ccccggtgta gctcttecta 120  
 atttcgagct gcccttcatt ctggaaactg atgcttcoga cactgggtatt ggagcagtat 180

tacctcaaaa tggccacca atagcatttt tctccaagaa acttgcacct agagtgcaaa 240  
 agaaatctgc ctactttaga gagatgttag caattgctga agctatagct aagtttagac 300  
 actacttgct gggacacaaa tttattatca gaactgatca aaaaagcttg agatcattga 360  
 tggaaccacc cctacagaca cctgaacaac aagagtgggt acacaggttt ttgggatatg 420  
 atttgtgatt gatac 435

<210> 7703  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 7703

agcttcaggc tattcaattg cttcagtttg ctttttctta atggcaaagg tctgtgtggt 60  
 ggtcggcaga agagcacaag aaaatgataa tcttcccaaa gaatggaaaa cttcaagaaa 120  
 tcatcctctt gacaatatca tcggtgatat ctcaaaaggg gtaacaacta gacactctct 180  
 caaagattta tgcaataata tggcatttgt ttcattaata gaacctaaaa actttaagga 240  
 agctattata gatgaccatt ggatagtagc tatgcaagaa gaattaaatc aatttgaaag 300  
 aaatgatgta tgggaattaa tagaaaaacc tttagattat ccaatcatag gaactaagtg 360  
 ggttttttaga aataaaattg gatgaaaaat 389

<210> 7704  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<400> 7704

agcttgatgc ctgtacaatc ttatactttt atttctaggc cttgttcagt ttgatgctgt 60  
 gaggacactg gacaccaatt ttcttgtagt tttcttaggg cctgttttagt ttaaggaaat 120  
 gattttgttt tcattagtaa ttaattacaa aaaacaggaa ataaagtga aataaagtga 180  
 cacttgtagt tatttgtaga aacagaaaat gagataaaaa catttcctga gaccaaacag 240  
 gcccttagaa taagcataca tcttaaaacta gattatcttg tcttacatga attaatatgg 300  
 tcttgcaggc ttacattat tccttggatt cctaattgat cgtaccacc attatcttca 360  
 aaagcttatt aatttaagga gtaatgcggg agcttcaaaa gaagaattgg aaaaccttaa 420

aaaagaaact gtccaactta aagaaaagga tgagaaagca tccaaggaga ttaaacagct 480  
aaaggaagaa ctttcacatc tgtccaaaag tttggaaaag ataaaattgg gatctgaaga 540  
gaaagataag aa 552

<210> 7705  
<211> 460  
<212> DNA  
<213> Glycine max  
<400> 7705

tagttggaca tctgttgagt atgtgaacag cagtgtagac tgcttcagcc cagaatgtgt 60  
taggtagccc cttctccttg agcatcgatc tagccatttc cataattgcg caattctttc 120  
tctctgacac ttcattttgt tgaggaaaat atgtgactat aagttgtcgc tcaatgcctt 180  
catcctcaca aaatctttca aactcgcgag aggtgtactc tttgccgaga tcacttctta 240  
atacttttat ccgttatcca ctttgatctt ccgcagggcc ttgaactttt tgaatactcc 300  
aaagacctct aatttttctt ttatagaata taccctgtc attctacaga actcatcaat 360  
gaagagtatg aagtcctgtg tgttctcatg cgatggcata ctcatggggc cataaacgga 420  
cgtatgtatc agcttcaata gatctttcgc tcttcatgct 460

<210> 7706  
<211> 325  
<212> DNA  
<213> Glycine max  
<400> 7706

atactcacgc tctactatgc agagaatatc caaggaaaat accttcatct ttcttatcat 60  
caaattttcc taagttatct tttccattat tcaatacaaa acatttaca ccaaagatat 120  
gaagatgtga gatatttggg tttctgccat tgaacaattc atatggagtt ttctttaaga 180  
tgggtcttat taaagcccta tttaaaatgt agcatgcagt gttaacggct tcagcccaaa 240  
aatattttgg aagagggtga tcatttaata aagttctagc aatctcttcc aaagatctat 300  
ttttcctttc aacaacacca ttttg 325

<210> 7707  
<211> 299  
<212> DNA

<213> Glycine max

<400> 7707

ttttttttcc attacccttc taaaaaggtg gggaaccaac cccccaagga gaaataagtg 60  
caagggaaga gtaatagacc agaccaaccc acacaaatga aatgggccct ccgcaacaag 120  
tcattccataa tatcaaataa atcatcttca tcattgggga atttaccaag agccataggc 180  
atagggagtc ttctattcaa ctacttcaac catttcccaa cacctcaaca ttttcatagt 240  
tgctcaagtt tccccaaaaa ggctccatac tcaatgcctg gataggaaaa taagaaatt 299

<210> 7708

<211> 344

<212> DNA

<213> Glycine max

<400> 7708

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atcgaaacgc tcgaaattga aaacagaagc tctgtgcaaa ttcaaacgac aatacathtt 120  
aactcggatg tccgattgag tcccgtaata tatcaagaca ctcgaaattg agaataaaaag 180  
ctctgaacaa attcaaacga caataacttt ttactcggat gtccgattgg gtcccgtaaa 240  
attatctaga cactcgaatt tgagaatgga agagctgatg caaattcaaa cgacaattac 300  
tttttactcg gaatgaccga tggagtcccg agcgttgat atat 344

<210> 7709

<211> 413

<212> DNA

<213> Glycine max

<400> 7709

agctttaact cggatgtccg attcggtttc ttttatatct agacacttga tattgaataa 60  
cagaagctct cgagaaattc caatggatcat aacttttcac acggatgtcc gattcgggag 120  
cataatatgt cgagacgctc gaaattgaac aacggaagct ctcgagaaat tccaatggtc 180  
ataacttttg actcggagga ccgattcatg cgcataatat atcgagacgc tcgaaattga 240  
acaacggagg ctcccagagaa attcaaattg tcataacttt taaactcaga ggtccgattc 300  
aggcgcataa tatatcgaga cgctcgaaat tgaacaacgc aagctctcta aaaattcaaa 360

tggtcataac ttttcacttg gaggcgccat tcaagcgcat cttatatcga gac 413

<210> 7710  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 7710

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attggtgttg aaccaacccc ccaaggagaa ataggtgcaa gggaagagta atagaccaga 120  
ccaaccacaca aaaatgaaat ggtccctccg caacaagtca tccataatat caaataaatc 180  
attttcatca ttggtaaatt taccaagagc tatagtcata gtgattcttc tattcaacta 240  
cttcaaccat ttccaacac ctcaacattt tcatagttgc tcaggtttct catagatagc 300  
ttctatactt taatgcttgt ataggaaagt aagatattga agtttttggg ctttatgtgg 360  
aatactctgt catgggttat ggaagctgct gctatcatgg ccataggcat gacacatggc 420  
aca 423

<210> 7711  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 7711

gacactatat aatactcccg cttttagaaa atgtcgatgc cgagtgtgta ctatatTTTT 60  
tttttgtagc agttgtacga aacctgtgtc gactcaaat tcccgtatgc tggaaagtca 120  
tttatggtac aaaatagcat tgcgcgcaac ttgaatgttt catttcgata cccatcaaac 180  
atgaaaaccc ccttgtacaa caacttgctc gagtctttta tcaagggact gagataagca 240  
tcgatgtcat ttcttgggtg tcttgggctt gatatcatga tataacaacat tatgtatTTT 300  
cgcttcatgc acaatcaaag atgcaagt 328

<210> 7712  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7712

gacccgcacg catgcaagct tattgaaatc tagaggaact tcttaatggn gttgtcaaca 60  
aacacttcaa aaagtgcctg gattacctgg gaaagagtat gctcacccaa agaaaaagggt 120  
ggccttggga ttaaaaatct ctaccttttt aatataagcc tcttatctaa atggaggcgg 180  
agatttctcc aataccactt tgtagatagg tcccctctta ttacattcag atatggttgt 240  
tctttctctg atctatccca tctggcccac aaaattgggt tgcttctaac atgattcgca 300  
atgtcggcga tggctcccaa atgaaattct ggtatgctct ttgggttggt gactcatgct 360  
tctcacactt ggtctctcga ttgtctcaga gagtgacacg gctttcttgt acagt 415

<210> 7713  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 7713  
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taccaaacct tccttaacaa aaggagcga ccaaaaatga gcccaacgaa gcattcaaac 120  
ccaattttgt ggatggccaa atacaacaca ccttcaatac atgtgtaatg gcttattaag 180  
atactcagac tgcccatccg atagcggatg agaagaagac ctcatggaca atattgtgcc 240  
ctgagatata aataaatgat gaaaaaatga actaatgagg actctgtata tat 293

<210> 7714  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 7714  
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tagcatccat gccttacttt ggagtgattg aacaaatctg ggagcttgat tatattgaat 120  
ttagagtgcc tatgtttaag tgtaagtggg tcaatgccaa tacgggtgta cgccaagatg 180  
aattgggatt taccttagta gacctcaata aggtggctta catggatgaa cctttcatta 240  
tggccaaca agcaagacag gtgttttaca tcgaagatcc ttgcgattca tgatattcgt 300  
tggttctaca aggaagacca agtgggttaa tgacacacat gatgggtcca tgcttgacat 360  
ttgtgagaca ccaccttttt caacaagaat gccttatatt aatgagttac actttgttga 420



<210> 7715  
 <211> 534  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7715

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 tactaccctt ctatgcagtt gttgggacac atttttatat gaagttgaca aaattaagaa 120  
 tgaatgagtt gaataatttc aggggcttga tctgcatatt tctgaaattg agcaattgtg 180  
 cgcaaaattc ccatcaacaa ttgtattgct tgatcacttg ggatttcctc atgaactttt 240  
 atatcaagga agcaagcat gcataaaatt ttcattaatt acatttttgc tatacagctg 300  
 attctttttt ttaatcagac agcaaacata aaattcacag atttgtaact cttgtacatg 360  
 cttattcttt ttttactgta aagaagccat gcattctatt agcaatgaga tctctttgcc 420  
 tttatcagat ntagagtgga tcatggggag gacagctaca caactctttc aaaaccaatt 480  
 gactccggtc aagagttgag agccgggatg ctgtttgatt gtattaaaag tttt 534

<210> 7716  
 <211> 643  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7716

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 ttaccctcgg aagcaaaaaa gaaaagaagg aaaatttcca atcaaagaga aagcaaaaag 120  
 aaaagaagga aaatttccaa tcaaagagaa agcaaaaaga aaagaaagaa aattcccgat 180  
 caaagaatgg gagaaagtaa aaaaaggaag aagaagaagg aaagaaagct cctgatcaag 240  
 gatcgaaaga aaacagaaga aatgtgcaga aaggtctttg gaccggacaa tatctgaaca 300  
 atacagaatt gtcaccaa atgaacgaaaa aaggaaagga aaccatgacc taaagtgggt 360  
 ttctcccttt aattgccaac caagatattg tgtgctagcg acttttttgc cccgcactan 420  
 accaaaacag aaaaggaaaa aagccagaaa aaggggccaaa aaaagaagag gtcaaaagcc 480

aaaaaaccca ccaaaagaac ccgtttccaa gggaagtcct attgatccat gatcacgcat 540  
gtaatctttg atttgatagg aaatgatttg caaatccagt catgacatat ctatgggtcg 600  
gaatttgaa acaacactaa cctgggagag atttgtacc ttt 643

<210> 7717  
<211> 539  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7717

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ctttgtgtcc agttttcttc ttaattgac cggaacatgc ttgaagcaca agcatccaaa 120  
cacccttagg tgcttgagac aaggcttact tccactccaa gtttcttcag gtgtcacatt 180  
ctctagcctc tttgttgaa atctgttgag cagataggct gctgttgaca ctgcctcacc 240  
ccaaaactcc tttggcaagt gaaaattcct tagcatacac ctggatcatgt tgactatggt 300  
tctattgagt atctcaaata caccattgtg gtgtgggtgca tatggagggtg tgatcttatg 360  
aatattacc tcactctcat anaatttctt gaatacatgt gatgtgtatt cactaccacc 420  
atctgatctg agtctttgaa tctatttct actttgtgtg actcccatca ccttgaatct 480  
tttggaggag agaaacactt cactcttcct gcttaacaag tagatccaca cccttcttg 539

<210> 7718  
<211> 550  
<212> DNA  
<213> Glycine max  
<400> 7718

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ctatggcatc atttctggca ctaaactgct gggagttgga ggccatcttc tcaattaaat 120  
ttttggcttc agcaggagtc atgtctccaa gggctccacc actggcagca tctatcatac 180  
ttctctccat attactgagt ccttcataaa aatattggag aagaagctgt tctgaaatct 240  
gatgggtggg gcaactggca catagtttct taaatctct ccagtactca tacaggctct 300  
ctccactgag ttgtctaata cctgagatat ccttctgat ggctgtgggc ctggaagcag 360

ggaaaatttt ttctaagaat actctcttaa ggtcatccca gtcgtgatg gaccttggag 420  
 caaggtaata cagccagtcc tttgccactc cctctaata atgaggaaaa gccttcagaa 480  
 atatgtgatc ctcttggaca tctggggatt tcatggtaga gcagacaatg tgaaattctt 540  
 tcaaatgttt 550

<210> 7719  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <400> 7719

atgtgttgag cccacagagt catgtcttct ttttactggg cgacttgggt aaagtccaat 60  
 gacttgatga cacatatgtt agggatatcaa tatacaacta ccaattattt cgtcagggtg 120  
 atgagcctgg ttggaaaagt gaagaggtga tttggggaat gttagtagca aaggcaatgg 180  
 agaaggggat tgctcaaat taagaggaca attagagaga ccacattgtt gtgagaaaga 240  
 gccactatt attaacttta tgccccccc ttacaacatg cagtctgcaa attgctataa 300  
 aggaggggta ttaacatccg ttacacaaga caaatcaaat gcaatgccac cttccaaatg 360  
 acttatgatt caactagcac caacaccacc aatttttagca tgctgtaaa tttcacgttt 420  
 g 421

<210> 7720  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
 <400> 7720

cgacctttaa tactaccttt cattctttgg aagttcatat ttgattggct cttcttttga 60  
 ccttcattgc ttcctttcct ttttccttta gaatcttgtc cataaatatg catttgttat 120  
 aaagattctg caatatcatc tagaatatcc tttcttggag gaatagcatt agactcatca 180  
 aaggaaacat gaatagattc ttcaatagtc atagttctct tatatattct ataagcttta 240  
 ctatgcaagg aataaccaag gaaaattcat tcatctgact tagcatcaaa ctttcctaag 300  
 tttcttttct cattgtttta tacaaagcat ttgcaggcaa aaacatgaag gtgtgaaatg 360  
 ttaggttttc taccattaaa tagttcatat ggagttttct ttaaaatggg tcttgtttaa 420

gccctattca tgatatagca tgcagtatta acggcttcaa

460

<210> 7721

<211> 540

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7721

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tttattatta aaatgggtta atcctttgac tttaacagata gttgaattct catgtaattg 120

tattcaatta tcatatatat caaataagaa agaaagatgt gtaagatttc ctttatatct 180

tcaatatgga aaagatatat aaatatgggt tcattatgag tacataagca tatttaagaa 240

ttattaaatt aataattaa atatattaa gtgggagagt catcaaacca tctgcataaa 300

gctgtatcac caaaagattt tcttctaagc gattttgatc tattttgttg tctcttttct 360

gctaaaaatg gttcctcttt catatttcta ccctaaacat tntatatcac accatccctc 420

aattttctaa tgctatggag taaaaattat cctgtgggtt tttagagaga aaacanaatt 480

atcanataga tgtaaatatt aatagaattc aattccaggg ggggagctgc tcgagcacta 540

<210> 7722

<211> 559

<212> DNA

<213> Glycine max

<400> 7722

atgagaaaaa cttaatgcat tttatattct tattttcttc ttctataaat acttattaag 60

aagtttataa aaaaatagtc tttaactaat ttatatattgt gatattcgaa agatgcttat 120

actttcttgc tttattacta catgtaatta attcgttaaa tttggtcgat gaactaacc 180

ataatatata tttgtcgtct catttttaat taatttcaca ttaattttgt ttttgtatga 240

gataaataaa taaaagtgtg tgacatactc ataattgtaa atcagatgga tctatcaaac 300

taaacaaagt tattttgagc tttaatcgaa ttaagttcga gctaaaaatt aagtaagatg 360

catatcaaac tcaagtcgat ctttcaacca aatcaattct tatatagttg acttggactc 420

atttctacca tcaacattaa tctagaatgt agcatttaat cattttatta ttcttggggg 480

attaatttat tttatatcct tattttttta aaaaatataa taattcataa caaataactt 540

ttaaataattt acaaataaa

559

<210> 7723  
<211> 437  
<212> DNA  
<213> Glycine max  
  
<400> 7723

gcatgccttt agaaactaaa ttggcgagat atgttttttt gtcggggatt ggaaaaacgg 60  
tggaaactgt catttggaac cactaccgga gcttgatctc tcattggtgc ctaatgacaa 120  
ctggtcacaa ttaaaaatag ccaatgctat cttatctgct gcacacacaa atatttctga 180  
aacaacaag ttcatggtgt taaatgtaac ccagatgacc gctcagagaa aagatgggca 240  
ttcatctatc tattatctcg gtcgtagtgc gggccatgtg catcatcatc gccaagattg 300  
cagccattgg tgtctacctg gtgtacctga tacgtggaat gagctgcttt atgcactgtt 360  
gcttaaacad gaaactgctc acagagggga actgtaacac gcatcaatat gatttgctga 420  
gaaattgtta aattctg 437

<210> 7724  
<211> 610  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7724

tttgcggatt tagttttcac ggacgaacgg atcttatatt tatgaaaaga ggcaaattta 60  
atcatcttgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag aatgagggag 120  
agaccatgt tgtgactgcc attcctatac ggccaagttt ccagtagcc caacaatgtc 180  
attactcagc caataacaac ctttctcctt acctaccacc cagttatcca caaagggtcat 240  
ccctaagtca accacaaaac ccaccttcca cacaaccaat gctaaacacc accttttagca 300  
cgaaccaaag caccaaccaa ggaaggaatt ttgcagcaaa aagcctgtag aattcaccct 360  
gttgacactt gtggcctcaa taatcttaag agggatatgc ttagaatgca gaagaagcaa 420  
caataatcaa ttttaataatg ttctataaac atgcaaggca aaattgattg caataacata 480  
aatgagataa gggaagagag aatgcaaaca caantttata ctgggtcggc cactttccgt 540

gcctacatcc agtactcaag caaccactt gagatttcac tatctttgta aatccataca 600  
aagtctgaac 610

<210> 7725  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7725

tagctttcga gaatntaaaa ttgtcataac ttttctactcg gatgtcttat tcaagcacat 60  
catatatgga gacgcccga attgaacaac ggaagctctt gagaaattga aattgtcata 120  
acttttctact cggatgtccg attcaggcac atcacatctc gagacgctca aaattgaaca 180  
acggaagctc tcgagaaatt caaatggtca taacttatca ctcgatgtc cgattcaggc 240  
gcatcatata tcgagacgct cgaaattgaa caacggaagc tcctaagaaa tttaaattggt 300  
cataaatttt cactcggatg tccgattcag ggcattata tatcgagacg ctcaaaaatg 360  
aaccatggaa gctctcgaga aattaaattg tcataacttt tctactcg 408

<210> 7726  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 7726

agcttcccc atcaacgtta ggccctatat gtatccccat taccataaaa cagagattga 60  
aaggcaaatt tcggccatgc tcgaggcaaa tctcatacaa cccagccaca gccattttc 120  
ctccccaatt cttctcgtca agaacaaaga tggctcatgg aggtgttgtg tggactatcg 180  
cgccttgaat gctgtcacgg tcaaggaccg tttcccatg ccgacaatcg atgaactttt 240  
ggacgatctg gggcaggcgt cgtgcttctc caagctcgat ttgcgttaga gatttcatca 300  
aatccgcatg gccgacgaag atattcataa aacggctttt tgaactcatc tgggccatta 360  
tgagttccga gtcatgccgt ttggactcag taactgtctg tcgacat 407

<210> 7727  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 7727

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agcttcagtt atccatttcg agcgactttt tatatacagg actcaatcag acatgogagt 60
aaaaatttac tgcgctttga atttgctcag agctacaaca ttcaatttca agcgttccga 120
tatattacgg gacttaatca gacatccgag taaaaagtta ttgttggttg aatttgctca 180
gagcttcgat attccatttc gagcatctcg atatattacg ggactcaatc agacatccga 240
gtaaaaagnt attgtagttt gaatttgctc aacgcttcng tattccattt cgagcgtctc 300
gatatattac gggactcaat cagacatccg agtaaaagtt attgtcgttg aatt 354
```

<210> 7728  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7728

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tttcatgcaa gctntgactt atccaatggc atggacactt taaaagacta aactctattt 60
tcaaaattgt actaactggg ttctctgtct caaggagtta tgccagggac caaaggtaca 120
ggtggcttcg gtttctttat tttatccacc aaaataactt gagtagttag aatgacacca 180
gcaacagaaa ctgcactttg aagagcacat cttgcaacac gactaggatc cgctactcca 240
gcattcaaaa gatcttcata cgtgcctgtc attgcattat atccagttct ccaatcatgt 300
gttctagtct tccggacaac aatgtctcca tcaactccgg cattagttgc aatngatttt 360
caggttcaag gagtgctgc 380
```

<210> 7729  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7729

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tgtgatgaaa gcttttataa cttcttggtg ggaatatgaa ctctatcatg caaaattgcg 60
tggtcactgg cagccatatt ttcaattaag tccatggctt cttcaggtgt cttcatggaa 120
tgaagaaatt gcagcttttc cttctgcagt tttagactct gggaaatatt tttttagaaa 180
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cttctcaaca acctcatccc aggtctttta actattgccc ttgaatgaat gcaaccatct 240  
 cttggcctcc cctgataaag aaaatgaaaa caggctgagc ctaatagcat cttcaggtac 300  
 accgacaagc ttaacagtat tacaaatctc aatatacgtn gccaaagtgtg agtatggatc 360  
 tt 362

<210> 7730  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
 <400> 7730

tagcagaaga acttcaatat accaatcatt atgtggacta ccgaccccaa agaatggaca 60  
 tcacctgaaa ttggaaggtc ttggatctga acaaatact atctttcaca ttttgattta 120  
 aaaaagaaaa tcagaaacag aaagaaactt gtccttggat cacaagttga taattactgt 180  
 ttcttgcagt gtgcatagc acctatcaaa tgtgaactgt acttcatcag caatgaggaa 240  
 gtgatcaaac ccactagcat atggcgttgc aatgatcaat ataccctag taacacaaaag 300  
 ggggtgataa ctatggcttt ttcattgtag 330

<210> 7731  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <400> 7731

accatagaac tctcaagctt tacgcggaca agaacagaag ggaagtcttc tatgaaatca 60  
 atgattgggt attggtcaaa cttcgacctt atcgacagtc cacggtgaga ggatctccgg 120  
 cgagctccgg taagctgacc aaacgctact ttgggtccctt tagagtcatt gaacgaattg 180  
 ggatggctgc gtatcgctt gaactaccgg agggagctaa gatacattct gtcttcact 240  
 gtccttgct taagcctttt cgaggatccc cgacacagcc tgactctact tctctacctc 300  
 cacaattcat tgatggacat cctagcacta ctctcttgc tatectca 348

<210> 7732  
 <211> 326  
 <212> DNA  
 <213> Glycine max



<400> 7732

ttgtatggat aggaagctct gctgtagtt aaaagagttg acatcccttc caaattggaa 60  
ggggtaaatt agttgagtaa ggacagggat gaattattac aggaactttg gaacaatctg 120  
ctaaaggctc aggatcagat gaaaagatct gcaaacaagt ataggaggga gctagtcctg 180  
caggaaggag attgactctt tttgaaacta caaccttata gaatgaagtc tccagcaaga 240  
aagccgaagg agaagctgag tccacaattt tatggaccct acaaggatgat acaacgaatt 300  
ggagaggtca cttataaact ggaact 326

<210> 7733

<211> 324

<212> DNA

<213> Glycine max

<400> 7733

ttgatgtttg tgttgaatgc attaaagggtt aacagaccaa aagcaagaaa ttaggtgcat 60  
atagagctac aaatgtcttg gaattgatac atacaaacat ttgtgggcca tttcatacac 120  
cttcatggaa tgggtcaaca tattttatat cattcataga cgattactcc atatatgcat 180  
acttgtttct tatacatgaa aagtcataat ctctagatgt gttcaaaaca tttaaagttg 240  
aagttaaaaa tcaactcaac aaaagaataa agtgtgtcag atctgaccgt ggtggtgaat 300  
actatggcag atatgacgat ttag 324

<210> 7734

<211> 322

<212> DNA

<213> Glycine max

<400> 7734

tctattctga atttcgagtc gtctcgatat actataagac acaatcagac atccgagtaa 60  
aaagttattg tcgtttcatt ttgcttagag tttctgttct gaatgtcgag catctcgata 120  
tactacggga cacaatcaga catccgagta aaaagttatt gtcatttgaa tatgctcaga 180  
ggttccgttt tcaaatacga gcgtctcgat atattacggg attcattcgg acatccgtgt 240  
aaaaagttat tgtcgtttga ttttgctcag agcttccgtt atcaaattcg agcgtgacga 300  
tatattgcgg gattcattcg ga 322

<210> 7735  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 7735

ggtgacaagt ggttgaaaat aacaatttag tgcccaactt gtcacacaaa gtccctccaaa 60  
 aatggcttag gaacttagag tccctatcac taacaatgct ccttggcaaa ccatggagtc 120  
 tcacaatctc cttgaaaaac aaatcaggca catgggaagc atcatcaact tttttacgtg 180  
 gaataaaatg agccatttta gaaaacctat caacaaccaa aaaaatggaa tctctaccat 240  
 tgcttggtttt tggcagcccc aaaacaaaat ccatg 275

<210> 7736  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 7736

tctacagaag gttcgttcct aatttctcta caattgcac acctttcaat gagctgggtga 60  
 agaagaatgt ggcatttacc tagggtgaaa aacaagagca agcctttgct ttgctcaaag 120  
 aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg ggagttggag ctgtattggtt acaagggtggg caccctattg 240  
 cttatttttag tgaaaaactt catagtgcc cctcaacta cccacacctat gataaagagc 300  
 tttatgcctt aataagagcc ctccaaactt ggg 333

<210> 7737  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 7737

tgtatttgat agatattgtg ttatgtgttt aaatctgtca tattccagga tgaagacata 60  
 aaaaatgcaa ttgaagatgc tgggtttgaa gcagacatat tacctgaatc cagtacagtt 120  
 gcacatgaaa ccctggtggg acagttcaca attggaggta tgacatgtgc agcatgtgta 180  
 aattctgttg aaggtatttt aagaaatctt acaggggtca aaagggtgtg tgtagctttg 240

gctacttcat caggtgaagt tgaatatgat cccagtgtaa ttagtaaaga tgatatattc 300  
aacgcaattg aagattctg 319

<210> 7738  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7738

agctttgaac atttcaatga aattcgnntt taaaaatacc ctcctttctc gcttcatttg 60  
atgaagcacc tcttccaggg accgaaaatc gagggaagag gcgtggcttt caatgagggg 120  
atagaaagac aaatcgccca atttgtaaga acccatttgg gtacctgatt tgaagatttc 180  
atatgaaggg tgggggttgt gggaagagga agaataagag gggagtgtaa ttagggtttg 240  
ggagaaatag cgatggagag ttgttcgaag aacgtttgtg ggaaatgatg agtgcttttg 300  
catgacatgg atcattcggg aaaaaaaaaa agtgggggtn tgaggtaatg ggcagtgtca 360  
ctgactcagt gagttg 376

<210> 7739  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 7739

tagcactctt caagtcccca tgcttgacta aatcccttct atcatcactt ggcaaactca 60  
tccaaaactc cccgtcattt cttccccac ctggcaaatt tgagccggct gcataatgg 120  
tctctcccggt ggacacgccc ttctcgtaca acaaggcccc attattgaaa aaccaatcaa 180  
cagaagaagg caagtaagct tcctcgggat gaaagaaaac agtaggcccc tagtgctcta 240  
taagtgcattg tatttggtgg aggcgtggca ttgctggtag cacaggattt aggttcttca 300  
agcacacaac aggtagctct tc 322

<210> 7740  
<211> 319  
<212> DNA  
<213> Glycine max

<400> 7740

tctcgatata ttacgggact caatcgggtca tccgagttaa aaataattgt cgtttgattt 60  
 ttgtcagagc ttccattttc aattacgagc gtctcgatat cctccaggac ataattggac 120  
 atccgagtga aaagtatttg tcatttgaat ttgtcagag cttctgtttt caattacgag 180  
 tgtctcgatt tattacagga ctcaatcgga catccgagtt aaaagttatt gtcgtttgat 240  
 ttttctcaga gcttccgttt tcaattacta gcgtctcgat atcctacggg acacaatcgg 300  
 acatccgagt caaaattta 319

<210> 7741  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7741

agctttaagc attttcaaac gacaataatt tttaactcgg atgtccgatt gagccctata 60  
 atatatcgag acgctcaaaa ttgaaaacgg aagctctgag caaatttaaa ggacaataaa 120  
 tnttcactcg gatgtccgat tgtgtcctgt angatatcga gacgctcgta attgaaaacg 180  
 gaagctctga gaaaaatcaa acgacaataa cttttaactc ggatgtccaa ttgagccctt 240  
 taatatatcg agacgcttga aattgaaaac ggaagctcta tgaaatgtca aacgacaata 300  
 acttttaatt cggatgtcta attgagtcct gtaatatatc gagacgctcg taattaaaaa 360  
 ttgaagctct gagcaaattc aaacgacaat aac 393

<210> 7742  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <400> 7742

tctagatgag ttatgtcttc gaatcgggtct atcctgtgaa aagttatgac catttgaatt 60  
 tctcgagtgc ttccgttggt taatttcaag cgtctcgata ttttatgtcc tcaaatacaga 120  
 catcggagcg aaatgttatg accattcgaa tttgtcgaga gcttccgttt ttcaatttcg 180  
 agcgtctaga tgagttatgt caccgaatca gacatctgag tgaaatgtta tgaccattcg 240  
 aatttgtcga gagcttccgt tgttcaattt cgagcgtcta gatgagttat gtcaccgaat 300

cggacatccg ggtgaaaagt t

321

<210> 7743  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 7743

agcttgcaca ttgctgcttg atagaagatt agcaagacgg taaatcatgg tactttgaca 60  
tcaagcggta cgtagagtat aaggagtatc cacagggggc ttctgacaat gacaagagga 120  
cattgtgaag gttggcaact agtttctttt taagcggagg taccctatac aaatgaaatc 180  
atgatatggt tttgctctga tgtgtagaca ctaaagaagc cgagcgaatg ctcattggagg 240  
tacatgaagg gtcctttggg atgcatgcta atgtgcatgt catggctagg atgattctaa 300  
gggcagacta tcactggctc accatggaaa atgactgttg catccatgtg aggaaatgcc 360  
acaagtg 367

<210> 7744  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 7744

actagaatgc ctggtttacc tggttaacca actggccatg aataaaaaat tttcacctgt 60  
cgccagactc tatggtttat gtcctctat tgaccaccac acagaccttt gcccttctgt 120  
gcaacaatct gaagcaattg aacaacctga agcttatgct gcaaactct acaatagacc 180  
tcctcaacct cagcagcaaa atcagccaca acaaaacaat tatgacctct ccagcaacag 240  
gtacaatccc ggggtggagga atcatcccaa ccttagatgg tcgaatcctt cacaacaaca 300  
gcaacaacaa caatagcctt attttcaaaa tgctgctggc ccaagcagac atacgttcct 360  
ccaccaatcc agcagcaaca acaacaac 388

<210> 7745  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 7745

tgtcagaaag ggaagcaagt taaaaactct ctttcaaagc aaaaacattg tttctacttc 60  
 aaaacccctt gaactacttc acattgattt atttggtccc tcaagaacta tgagtttagg 120  
 tggaaattac tatgttttag taatagtaga ggattactca agattcactt ggactttggt 180  
 tttgaaaacc aaaaatgaag cttttgatgc ttttcacaaa cttgcccaagg tgattcaaaa 240  
 tgaaaaaagg tctcaacatt gtttcaattg gaagtgatca tggaggtgaa tttcaaaatg 300  
 agttttttga aaacttttgt gaagaaaatg g 331

<210> 7746  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 7746

tcggaattcc atttcgagca actcgatata ttacgagact caatcagaca tccgagtaaa 60  
 aagttattgt cgtttgaatt tgctcagagc ttcagtattc gatttcgaga aactcgatat 120  
 attacaggac taaatcagac atccgagtaa aaaattattg tcgtttgaat ttgctcagag 180  
 cttcggaatt ccatttcgag aaactcgata tattacagga ctaaatacaga catccgagta 240  
 aaaaattatt gtcgtttgaa tttgctcaga gtttcagaat tccatttcaa gcaactcgat 300  
 atattacggg actcaatcag acatccgag 329

<210> 7747  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 7747

agctttgagc aaattcaaac gacaataacg ttttactcgg atgtctgatt gagtcccgta 60  
 atatatcgag acgctcgaaa tggaatacca aagctctgag caaattcaaa cgacaataac 120  
 tttttattag gatgtctgat tgagtcccgat aatatatcgg aacgctcgaa attgaatggt 180  
 gcagctctga gaaaattcaa acgacaatta ctttttactc ggatgtctga ttgagtcccg 240  
 taatatatcg agacgctcga aatggaatat cgaagctctg agcaaattca aacgacaata 300  
 actttttact cggatgtctg actgagtcgc gtaatatatc gagacgctcg aaattgaata 360  
 tcgaagctct gagcaaattc aaacgacaat aactgtttac tc 402

<210> 7748  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 7748

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tttctttgtg ggttgatggg ttctgtctcg tagaatggca tgatcactgg ctgacatggt 60
ctcaattagc tcagttgctt ctttcggggg cttcaatttt atctttcccc ctgcagaagc 120
atctaacagt tgcttggttt gtggtctcag cccatctata aacatattca attggattgg 180
ctcggaaaac ccatgagtag gagttcttct caacaagcct ctgaatctct ccaatgcttc 240
actcagagat tcatcaagaa actgatgaaa tgaagagatt gcagctttcc cttctgcagt 300
cttggactct ggaaagtatt 320
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<210> 7749  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 7749

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ttctaataaa tttacaatgt tccaattggt ttcaaatat tgtaattgat tacaatgatt 60
tggttaattga ttaccagtgt gtttgaacgt tgtaattcaa attaaattgt gaagagtcac 120
atcatttcac aaaaaagctt tgtgtaatcg attacactga tttggtaatc aattaccagt 180
gatagtttct gaacaaaatc aaaagatgta actcttccaa tagttttcaa gtttttctaa 240
aagttataac ttttccaatg gttttcagat tttctaatag ttataacttt tccaatagtt 300
ttcagatttt ctaaagggtta ta 322
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<210> 7750  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 7750

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tgtcgccaga ctctgtgggt tatgctcttc tgccgaccac cacacagacc tttgcccttc 120
tgtgcaacat tctgaagcaa ttgaacagcc tgcagctaata gctgcaaaca tctacaacag 180
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accttctcaa cctcaacaac aaaatctgcc acaacagaat aactatgacc tttccagcta 240  
caggggcaat tccggatgga ggaatcatcc caaccttaga tgggtcaaato cgtcacaaca 300  
acaa 304

<210> 7751  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7751

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gctgtatctc tgtctaaaat gatttgctct ggccatacat gcaatctcac aactgtgttc 180  
atgaataatt ttgcaacttt tgctgcactg aatggatgtc ctaaagctat gaaatgggccc 240  
tatttagtac atatatctac cactactaat atgacactga tacgatgaga cgacggcaaaa 300  
cctgtgatga aatccataga gattgactct catgctcta 339

<210> 7752  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 7752  
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gtgatacata aggtagtctt tattcagagg aactttttgt ggggggggtgg ttctgaaaca 180  
gctaagatac catgggtgat ctgggatatt gtttgtcttc ccaagactaa.aggaggggtg 240  
gggatcaaag atttgtctaa gtttaatgag gccttgattg gtaaattgggg atgggatctg 300  
gctaataacc agaatcagct ttgg 324

<210> 7753  
<211> 296  
<212> DNA  
<213> Glycine max

<400> 7753



tgatgatcgg agtgagaaac atgtgtttat tggctatgat gcaagttcaa aaggctacaa 60  
 attgttcaat ccaaacaatg gaaggacaat tgtgagccga aatgtcgagt tctatgaaaa 120  
 aggcacatgg aattgggagg agaaagaaga cacttatgat tttttcccggt actttgaaga 180  
 aatagatgaa gaagccttga ctccaaatga ttcaactcca acactttcac caactccttc 240  
 aaccaatgaa gcctcatcat ctttcgaaag gagttcaagt gaaaggccaa gaagaa 296

<210> 7754

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7754

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 gccctttggt gtgactaatg ctccagggtgt gtttatggac tacatgaata aagtctttca 180  
 cccttacttt gatagttttg tggtagtatt catagatgat attttggtat attcaaagac 240  
 tagagaggaa catgaagagc acttgaggat tatgctgctt acccttagga atcgacaact 300  
 ttatgctaag ttgtccaagt gtgagttttt ggtagagaa agttagtttc ctagggcatg 360  
 tgatatctc 369

<210> 7755

<211> 329

<212> DNA

<213> Glycine max

<400> 7755

tcaagctttt agaaaatgtc gatgccgagt gtatactatt tttcttccat gtttcagttg 60  
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 gcattgcgcy caacttgaat gtttcatttc gataccatc aaacatgaaa acccccttgt 180  
 tcaacaactt gctcaagtct tcaatcaagg gactgagata agcatcgatg tcatttcctg 240  
 ggtgtcttgg gcttgatata atcatagaca acattatgta ttttcgcttc atgcacaatc 300  
 aaggatgcaa gttgtaaatt actaacaaa 329

<210> 7756  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
  
 <400> 7756  
  
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 tagtatataa tgcatttata tgtataaaag agaagggtgca acaatgttgc tcaccaatgt 120  
 ccctttaacc tgagttgaaa catggccttt ctactgtct gagacaagct tagacaaacc 180  
 aaaatctgca acctttgctg tcaaattttc atccagcaag atattagtgg acttcacgtc 240  
 tctgtggatt atgggagggt tggcaagctc atgtaagtat gcaagtcctc tggatgaacc 300  
 aagagcaaca cggagtctcc tcttccagtc aa 332

<210> 7757  
 <211> 318  
 <212> DNA  
 <213> Glycine max  
  
 <400> 7757  
  
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 cgccctcccg ccgaagggtg ggttgcgaca accgtgacct aagagtcggt tggcatagcg 180  
 agccacacga cgtggggtc cccaaattcg tatgttccat catttatcat ttgtatgtta 240  
 tcttattttt atgacttgag ggactaacgt ttgttttgct ttttcgatcg ctttttgttt 300  
 tgtgcataca tattgttt 318

<210> 7758  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7758  
  
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 agttttcttc ttaattgatt tggaacatgc ttgaagcaca agcatccaaa cacccttagg 120  
 tgcttgagac aaggcttact tccactccaa gtttcttcag gtgtcacatt ctctagcctc 180

tttgttgaac atctgttgag cagataagct gctgttgaca ctgcttcacc ccaaaactcc 240  
 tttggcaagt gaaaattcct tagcatacac ctggcatgt tgactatggt tctattgagt 300  
 atctcanata caccattgtg gtgtggtgca tatggagggtg tgatcttatg aatattaccc 360  
 tcctcctcat agaaattcct tgattcatgt gatgtgtatt cact 404

<210> 7759  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 7759

tatcgaagga gtcataaata aactattttc ataagctcct tagaagctat tatcattaac 60  
 tgtgaagcat tcaagcttaa gcaataatac aattggagaa ttctcatggt ccataaaaca 120  
 gagtttgatt tcaatcaccg tacgtatcta tctatcatag aatcaacaat tctaatacata 180  
 acatgaaagc aagtaccgc aactgctcca acagcgccaa aagcaccaga ttttccgtct 240  
 ataacactgg catcgactc cagccaccg tcttcggtca gattggagcc tctgccggcg 300  
 tttgtgcagg gatcgctctc cagcactt 328

<210> 7760  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 7760

tctacattca atttcgagtc ttttcgatat attacgggac tcaatcggac atccgagtaa 60  
 aaagttattg tagtttgaat ttgctcaggg cttcgggtatt ccatttcgag cgtctcgata 120  
 tattacggga ctcaatctga catccgagta aaaagttatt gttgtttgaa tttgctcaga 180  
 gcttcggtat tccatttcga gcatctcgat atattacggg actcaatcag acatccgagt 240  
 aaaaagttat tgtagtttga atttgctcag ggcttctgca ttccatttcg agcgtctcga 300  
 tgtattacgg gactcaatca g 321

<210> 7761  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 7761

ncaagcttga gcaatttttaa acgacaataa tttntactc ggatgtctga ttgagtcctg 60  
taatatatcg agacgctcga aatggaatac cgaagctctg agcaaattca aacgacaata 120  
actttttact cggatgtcag attgagtcctc gtaatatatc gagacgctcg aaatggaata 180  
ccgaagctct gaacaaattc aaacgacaat aaatttttac tcggatgtct gattgagtc 240  
cgtaatatat cgagacgctc gaaattgaat accgaagccc tgagcaaatt caaacgacaa 300  
tcactttnta ctcggatgtc tgattgaatc ccgtaatata t 341

<210> 7762  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 7762  
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gaaggacttc atggcttata aagggaattca agtttagttt tctactgctt accatcctca 120  
gacagatggg cagatagagg tagtgaacat gtgtattaag acatatctga gatgtatgtg 180  
ctcagatgat cctaaacaat ggtccaaatg gcttcccttg gctgagtggg ggtataactc 240  
tacatatcac agcactatta aggccagtcc ctatgaaatc atgtatggac aagcaccacc 300  
agct 304

<210> 7763  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7763

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acatgtcgag acgctcgaaa ttgaaaaatg gaagctcttg agcaattcaa atggtcataa 120  
tatttcactc gtacgtccaa tacaggcgca taatatatcg agaggctcga aattgaacaa 180  
cggaagctct cgagaaattc aaatggatcat aacttttcac tcggagggtcc gattcagggt 240  
tataacatat cgagacgctt gaaattgaac aacggaagct ctcgagaatt caaatgggtct 300

tactttttcac ttggaggtcc gattcaggcg catcacatat agagacgctc gacattgaat 360  
aacgg 365

<210> 7764  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7764

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tatggggacc atctagagtg aaaactcatg gtggaagctc aaactttctc accatcatag 120  
atgattttctc aagaagagta tggttgtatg ttttgaaaaa aaaatcataa gctttttcaaa 180  
agttcagaga gtggcatact cttattggaa atcaacttgg tacaaaaacta aaagttttta 240  
ggactgaaaa tggcctggag tttgtttcag agcaattcaa tgagttttgc aggaaagtag 300  
gtatcaaaag gcacaaaaca gtccctcaca caccacaaca gaatggatta gcagaaagaa 360  
tgaataggac cattttttgaa aaagtg 386

<210> 7765  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7765

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tgactttgag gtaccataag aacattattc acataatttt gccaaactatt tcatcatgta 120  
gcattttttt ggtacattgt gatgactata aattaatgac gggactagtg ttggcctagt 180  
ggaggattga gatagtgtgc atgagatctt aggttcaa atcttagtacga ctattgtata 240  
aaaaaaaaat taatgatggt gtgtatgtat gcaaatcaga gagctatgta ccggtggatg 300  
ttgcagcctg cggatcgtga tgctgttttg gtgaatgtgg caatcaagaa tggcaccana 360  
gactaccatg tga 373

<210> 7766  
<211> 381

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7766

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 atatgagggga agggggaatc tctccctctg aaattattca taattctctt ctaagtagtt 120  
 gttgcaagtt ggggaatgttt ggggaagcac tgacattggt agattctatg atggagtgtg 180  
 gtcatttagc acatctagaa tcctataagc ttcttatttg tggctctgtt gaacaaatga 240  
 acaaagagaa ggctgaagct gttttttgta gtttactacg atgtgggtat aattatgatg 300  
 aagtggcttg gaaagttctg attgatggct taactaaggc tggatatgtt gatcaatgct 360  
 cagaatngct gaatctaata g 381

<210> 7767  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7767

tttcatgcaa gcttacatgt attgacaagc tggtattttt taactgccat ggaattcctt 60  
 aagagtatac aaaagaagcc attcttacct gcaattttct tacatattct tcttggaacc 120  
 tgaatgtgac aatttcctgt ccaaggattg tagttgggtg cggaagttct ggttttcctc 180  
 aagtaagcga tcataactcaa gaaggaaccc ctcagattgt tttctcagag cagctatatt 240  
 ggcttcagca ccatctacgt cttttgtttt tgactgtagt tcagattcaa ggcgggctaag 300  
 ttcagctctc aatctggctc tttcttctc cacagactta atntcttctg aattngcaac 360  
 tttcccatc 369

<210> 7768  
 <211> 226  
 <212> DNA  
 <213> Glycine max  
 <400> 7768

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 cctatgggtg tggggatgat ttctccagat ttacctgagt aaatgttatc agagagaaat 120

cagaaacctt tgaagtattc aaagtagtga gtctaatact tcatagagaa gaagactgtg 180  
tcatcaagaa gaatctggag tgaccatggc agagaatttg aaaaca 226

<210> 7769  
<211> 311  
<212> DNA  
<213> Glycine max

<400> 7769

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cgagcgtctc tatatgtgat gcgccttaat ctaacttccg tgtgaaaaga tatgaccatt 120  
tgaatttctc aagagctttc tctgttcaat tttgagcgtc tcgatatgtg atttgctga 180  
atcggacatc cgtgtcaa atgttatgacca tttgaattct ccagagcttt cgctgtacaa 240  
ttcagacctc tcgacatatt atgcgcctc atcggacatc cgtgggaaaa gctttggaca 300  
tttgaatttt t 311

<210> 7770  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7770

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tcccgttaata tattgagaca ctcgtaattg agaacggaag ctcgtagcaa attcaaatga 120  
caataacttt taactcggat gttcgattga gtcttgtaat atatcgagac gcttgaaatt 180  
gaaaacggaa gctctgagca aattctaacg agaataactt ttactcggat gttcgattaa 240  
gtcccgtaat atattgagag gtcgtaatt gaaaacagaa cctcgtagca aattctaaag 300  
acaataactt ttacttgaa tgcgattgag tcccgttaata tatcgagaca ctcgaaattt 360  
aaaatggaag ctcgtagcng atgcatacga caatgactgt ctactcagat gtccgattca 420  
atcccgtaat atatgaatac gtcgtaatt gaata 455

<210> 7771  
<211> 300  
<212> DNA

<213> Glycine max

<400> 7771

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ggctgtctta ctggaatagc cccatcctct aaatttatcc gatgcataca tatggatggg 120  
ctaataccag gaatgtccac caggggtccag cctatagcct atttatgctt cttgagaaca 180  
tataacagct tctcctcttg ctcatcagct agggaggcag atataattac tgtaaatect 240  
ttgctatcat ccaagtaagc atattttaaa tctgatggca gagacttcaa ttctgggtgtg 300

<210> 7772

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7772

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actacacat agctccacac atcactctta gcagttagct taccagtctg aacataactca 120  
ggcgcagcat aacctatggg gccgacaacc tttgagaaga gataagtcac ttattttgca 180  
tgacagcaaa atatcaggaa caaaacgaag attcagactt cagattatca ttgtaacttt 240  
ntataaatta gattcattca cattgaatat ggtaaaatat agttaattta ctcaatataa 300  
gctgccagaa ggcacactat tctgatgtac tactatgatg caatattgtc aatataatga 360  
gttttctcaa gagtatagac aaattcttac tgctggtgaa acatagccag acccttctga 420  
tggtccttgc cgagc 435

<210> 7773

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7773

tgaagttggg gcanaaatgg tgtgttcccg tgggtcttgg ggagcctttg gtgagttttg 60  
aagaaaatgg gggaagatgg ggtgaaattt ggcttccctt cccccccccc ccccgtttta 120  
tttttttcat cagaccatgc tcgccaggc gagttgaatt tgcaaaattc tattgcaaag 180



tttttgttat atatatttcc cttttaaaccc ttattaatta tgtataagct taggtgaatt 240  
 catgagataa ttcaagaaaa taaataagta tgaaacatga tgtagtgct tagctttact 300  
 gagttttaaa agattggcta aaattttgtt aaaacataag cgcttagaca atgaaggaaa 360  
 gctggagttg ctgcacatga tgtccaacgt tatgtcaagg aatcagattg ggctgcacaa 420  
 tgcacaaggc aagataaaat gtcaaatg 448

<210> 7774  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7774

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 tgtacctgtc gcaagggttt gtggtctgtg ctctctact gaccaccata cagacctttg 120  
 cccttccatg cagcaacctg tagcaattga gcagcctgaa gcttatgctg caaatattta 180  
 caatagacct cctcaacctc agcagcaaaa tcaaccacaa cagaacaatt atgacctttc 240  
 cagcaataga tacaaccctg gatagaggaa tcaccctaac ctcatgggt ccagccctca 300  
 gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360  
 cattctcca ccaatccaac aatagcaaca accccagaaa cagccaacag ttgaggcccc 420  
 tccacaacct tccctcgaag aacttgtg 448

<210> 7775  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7775

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 ttgttgggta gaccatggca atttaacaag aaagacatcc acaatggctt caccaatgaa 180  
 ataaccctca cccatgtaag caaaaagctc aaacttgttc ccttgacacc ttcacaagtg 240  
 gttggggatc aagtacaaat aaaactcaaa tgggatgagg aaaataataa aaaaaagaaa 300

agaagaacaa cctttaatgg ttaatgagga gtgtaaggag gtaggtgtct cctccaatag 360  
 gttagctaag aagaaaagtc attttgctat aaagacaaac attaaagaca cttcccttct 420  
 tagacaacct ccacatatcc 440

<210> 7776  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7776

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 aggtaatgga gaattgatag gtagcttgta agtggacttc tcttgacag tgcataaatt 120  
 ggctcaccaa actaacaaca aaagtaatat taagccttgt gtgagacaag tcaatcaagt 180  
 ttccaactag acgttgatgc atctccttat ccacttatgc attgtcatct taattagcca 240  
 atttaatggt tgaatccatg agagtactta gagaagctat catacatgtc tccttcagca 300  
 gatttgtagc atatttntgg ccggaatatg aaaataccct tcttgagtg agacacttca 360  
 attcccaaaa aatattt 377

<210> 7777  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7777

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 tctccttgcc ttagtccttt ctgaggtagg aactcagctg agggactacc attcaccana 120  
 aatgaaacag atgctgattn tagacacccc tcaatccatt gaattcattt gctgcaaaag 180  
 cccatcctac ccatcatata agtgagaaac tcccaagaca caaaatcata tgccttttca 240  
 taatcaacct tgaagacaat gcaaggcttt tggcatcttt tggcctcttc aactacctca 300  
 tttgtagtca ccacgctgtg tagcatatgt cttccttcta taaatgctga ttgcctctca 360  
 tgaataataa aaggcatgac cttcttcaat ctattggcca atatttttagc cactatcttg 420  
 tatgtgcac ccatcaatga tatanngttg aagtcattca aca 463

<210> 7778  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7778

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 acctcatcat ttactactaaa aacatcctta tatcacatgt tttcacataa aaagtaaaaa 120  
 ttaaatacta tcaagatata tgatgaaacc aatttgaaga tataactagt attcaaatat 180  
 ataaataaat tgaatataat tgatctaatt atatactaac attcatatgt caccacattt 240  
 catctacatt gtctttacta atatcactcc aaccattaac ttgtaaagga gctttctggc 300  
 aaatacatat ttgtgtctca tacttgaaat attttactat attaggtaga gacttcttca 360  
 ctagtttctc aagagagtgg tgtatggatg aatgattatt tgctctttta gaatcaatat 420  
 caatgaattt accatctatc agttacaacg gat 453

<210> 7779  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7779

tgagaatgga ggatntcctt gatggctctc tctnatgtta tcttgtaaca cagctccaaa 60  
 ctcaaaaatg gaggacacat gaatgacaac gcaattcatt catggggctc cgaaaaaggg 120  
 taagaatgga ggattttctt gagggctctc tcttatgcaa tcatggaaca catctccaaa 180  
 ctcaaaaatg gaggacacat gaatgacaac gcacttcatg cattggggctc cgaaaaaggg 240  
 tgagaatgga agatcgctg atggctcctt 269

<210> 7780  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 7780

taaatattca atttcgagcc tctccatata ttacggtttc tcaatcaaac atccgagaaa 60

aacggttattg tcgtatgaat ttgctcagag gttcaacatt caatttcgag cgtctctata 120  
tattacggga ctcaatcaga catccgagta aaacggttatt gtcgtttgaa ttggctcaga 180  
ggttcaacat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 240  
aaaaagttat tgtcgtttga attggctctg agcttcaaca ttcaatttcg agcgtctcga 300  
tatatgacgg gactcaatca gacatccgag taaaaagtta ttgtcgtttg aattggctca 360  
gaggttcaac attcaatttc gagcgtctcg atatattacg ggactcaatc acacatccga 420  
gtaaaaagtt at 432

<210> 7781  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7781

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caaacgacaa taacttttga ctccgatgtc tgattgagtc ccgtcatata tcgagacgct 120  
tgaaattgaa tgtcgaagct ctgagccaac tcaaacgaca ataacttttt actcggatgt 180  
ctgattgact cccgtaacat atcgagacgc tcgaaattga atgttgaagc tctcagccaa 240  
ttcaaacgac aataactttt tacacggatg cctgattgag tcccgtcata tatcgagacg 300  
ctcgaaattg aatgtagaag ctctgagcca actcanacga caataactnt ntactcggat 360  
gtctgattga gtcccgatcat atacgagac gctcgaaatn gaatgtcgaa gctctgagcc 420  
aactcaaacg acaataactt ttactcggga tgtctg 456

<210> 7782  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7782

agcttcaaca ttcaacttcg agcgtctcgn cttattatac gactcaatta gacatccgag 60  
taaaaagtta ttgtcgtttg aatatgtcga gagcttcaac attcaatttc gggcgtctcg 120  
atatatgacg ggactcaatc ggacatccga gtacaacgat attatcgtct taattggctc 180

agagcttcta cattcaattt tgagcgtctc gatatgttac gggactcaat caggcatccg 240  
 agtaaaaagt tactgtogct tgaattggct gagagcttca cattcaattt cgagcgtctc 300  
 gatatgttac gggactcaat cagacatccg agtaanaagt tattgccgnt tgagttggct 360  
 cagagcttca acattcattt caagcgtctt gatatttgac ggactcaatc aggcacccg 420  
 gcaaaaagt 429

<210> 7783  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7783

agaggaagaa gcatgatgga aatctgctgg tcattgttga aaatntcatg cacgcaccca 60  
 agaaatatga naaggtcagg ttattagtta aaacttacta gtaattcat tatacttgat 120  
 tataatgaat atttttaaag aaagatgtcc ttctgaatgc aacttaaata ggtgcataac 180  
 agaataaact tcttcattga tattgtaggc tgtaaaatac attgagtttg atcactcatt 240  
 cagtgaagat gagaagtgtc gtgctaatac cttacattta tctgtgaatt tgaacaatgc 300  
 tgctgtaaa cttaaatgn gggagtacat tgaagcttca agactatgca caaagggtact 360  
 ctctgaccc aatttaagta nttttctctt tctccctgtc tctctatcac ctgatgagac 420  
 aagaaaacat tgcataagggt agtgcattgt ctt 453

<210> 7784  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7784

cctcttcacg tctggagtat gtatgtagca tatagatcca aagaccctta ggtgctntgc 60  
 tgatggcttc ttcccggtcc aagcttcaat tggagtctgt cttttataga ctgattgga 120  
 catctgttga gtatgtaaac agtagttag actgcttcag cccaaaatga gtttagtagt 180  
 ccctcttcct tgagcatoga tctagccatc tctataactg tgggattctt tctcttgac 240  
 actccacttt ggtgaggaga atatgagact gtaagttgtc gctcaatgcc ttcacccct 300

caaaaatctt caaactcgcg agaggtgact cntgcccga atcacttctt agaactttat 360  
ccatcttcca ctttgatttc agcaatggcc ttgaacttgt gaatactc 408

<210> 7785  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7785

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caacagtcac atctttgtat gtggttcttg aatggctatc aaaggcctat atatatgtga 120  
cttgagacac gaatttacta aaagtttttc agaacaaaaa ggtcttatct tcttataaag 180  
caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttttcttc 300  
ttcttcattt tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa gaattctaaa 360  
caciaaggaa ggcgtgtcct ttgtgtgtta gaacttgta aaggaatnta caagatagtg 420  
gaactctcaa gcggttgct tgtggactgg a 451

<210> 7786  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7786

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tgccgatacc gttaactggt gaacagggtc ttgagcgggt tgacgacatt aatactgtat 120  
ttggaaagac ttcattattg gtctgatcta gatgtcagac attgtattga tgttatccat 180  
gtcaagaaaa atgattgtga tagtgtcatc gacacgcttc ttaagattta atgcaagtca 240  
aaggatggtt tgaataatca ctaagatcta gttgagatgg gtatacgaga ccagttacat 300  
ccaaggctctg atggtaacaa aatatacttg cttctagctt gtcatacttt gtctagaaag 360  
gaaaagataa ctttttgtca gtgtttgtgc catgtcaaag tgccacaggg ataactttca 420  
aatgttaaca gccttgtgca gttgaaggat ctcaagcta 459

<210> 7787  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 7787

ctgacattca ccacagattc tgccttcttc tattttcaga tagagaatgc ctctaacagc 60  
 acctttgtca atgatattct tcatgcctct taagagcaga tgtccaaatc tttgatgcc 120  
 tattttgact tcatcttctt tggaggatgg acatgtggat gagtaactgg tttctagagg 180  
 tgtccataag taacagttgt cctttgatct gctggccttc attagaactt cattcttctc 240  
 atttgtcacc aagcattctg actttgtgaa ggttacattg aatccttcat cacacaactg 300  
 actgatgctg atcaagtttg cagtcagtcc ctttaccagc agtac 345

<210> 7788  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7788

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 aagctcacct ccttgagaag cttctttaag aagattccta aagaagctag agcttagcta 120  
 cacatacctc tctaatagct aagctcacct ccttgagatg agaagctaga gcttagctac 180  
 acacccttat aatagctaag ctacccccca tgacaaaaaa aacatgaaaa tacaaaaaaa 240  
 agtccttact acaaagacta ctcaaaatgc cccgaaatac aaggctaaaa ccctatacta 300  
 ttagaatggc caaaatacaa ggcccaaaca aagaanaaac ctattctaatt atttacaag 360  
 ataagcgggt catgcttagc ccatgggctc gaaatctacc ctaaggctca tgagaacctt 420  
 agggccttcc cttggatctc tagcccaatc tacttgga 458

<210> 7789  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 7789

ttatgtgctc ttcattgctg tttttgttga ataatcccta aaattctttc ttgataaaac 60

tctattgatg tagctctcat ttcatttttt gggactctcc gaattgcttg tctcttggcc 120  
 tgcttattgg tgagttgccca tataggggaat tgtaaaggat gattgtggac atcccttgat 180  
 aatattgagt caagaagtta ggggaaaacc accttaagag cttttggact aagaaacact 240  
 tcaaattgag tgaatcacct atgagagaac actctccata aattcacgac cttcttttag 300  
 tggttttaat agagaattac ttaccttcat tgtttca 337

<210> 7790  
 <211> 308  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7790

gcttatatca tgttgtatat ataggntatt tatgcatgnt ctcttttgta ttgtagatga 60  
 tcaatgagag gagcctcctt gtgtatgtta actctagcat gaggtagttc ggaaatttct 120  
 actttgtgct ttgagtgtac cggtgcccaa atactataaa aaaaaaacga ctcttatgcc 180  
 taataataaa catgatggcg agccctgttg cagcggtaaa gttgtgcctt ggtgacttgt 240  
 tggcatggg ttcgaatcca gaaacaacct ctttgcatat gcaagggtaa ggctgctgac 300  
 aacatccc 308

<210> 7791  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 7791

atgaacatat cagcaggatt gtgtagaggy ctaattttat gaacattgag ttttctttct 60  
 aaccgaatga agtgatatct aacatctata tgcttggttc tatcatgatg aacttgatcc 120  
 ttggccaagc atatagcact aacgctgtca cagtagatgt tagcatattc ttgattaatt 180  
 ccgagatcat ttatcagacc tctaagccaa attccttctt ttgcagcttt agtaagagcc 240  
 atatatttag cctcagtagt tgagagagca accgaagggt gaagtgttac cttccaactc 300  
 accaagcagc caccaagggt gtaagcatac cctgttaatg accttctctt gaccagatca 360  
 gcagcaaat ctgcatcaga atagccagtg aggcagcaat ctgggtgaga tccatagatc 420



aaacctacat

430

<210> 7792  
<211> 455  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7792

ggccaacaaa tccgtatttc tttagagaca ttntcatatt attattccat ttgtcatttt 60  
aattagaata ttgcttttac attccgcaat tcaattaaact actattgtaa gtataacttt 120  
aaaatattta ttataaaatt taacaatttt attatacaaa tgagagtctt tgattgaatg 180  
acaactatat tcacattaaa ttcttttatt tttattattt gaagcattta attaaacttt 240  
gaacattaca gctcttagta tgtttaaaac ttagtttatt tatttaactt tccaatagac 300  
aatgatttct ttgatgatag aaaaaccaca caaaaaaagc tatttaattg aagaaaaatc 360  
aaattaaaag aaaaataaaa taaagatttt ctttataaaa actaattnta tctctnttat 420  
atcttcttat tnttaattaa aattcacaaa ctaat 455

<210> 7793  
<211> 453  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 7793

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ttattattaa aatcataaat ttatttactt ttttaaagt taggaatggt gatataata 120  
aaaaagtcaa acttataagt ttattgaagg ataaagtat gtttatttta agtctgatt 180  
gcaaaatgaa tttttaaata agttatcatt caccttatat tagaccttaa agataagctt 240  
ataaaacata agttagactc aatttttata aaaggttcat ttgtttaagt tgttttttta 300  
aaaaaatata ataacaaaat aattaagcat cttttcatgt gtttgtctaa attatctttt 360  
tgctaagaaa acnagaaaat gatttttntt aataaacaaa ctttatctac ttttagaaaa 420  
aacatttana aacattgctt aaaaaataa ttt 453

<210> 7794

<211> 343  
 <212> DNA  
 <213> Glycine max

<400> 7794

tgccgcatgc aagcttctaa actttataca agaatgaagc tctttaccac ttgttagaca 60  
 agttggccta gatattctaa gaaggggggg ttgaattaag atactacgaa ttatatcccc 120  
 aattaaaaat tctatcttct tttctattca agggatagat tcccttcata atgaatgtct 180  
 taaataatga ttcaaaagaa caatgtgaat atgaatatga aacaataata aataaaggag 240  
 tttaagggaa tagaaagtgc aaactcagat ttatactggg tcggccacac ccttgtgcct 300  
 acgtccagtc cccaagcaac ccgcttgaga gttccactat ctt 343

<210> 7795  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 7795

ggcacaaatg tcaggattct tactattcct cggaatagtc taatcaacca atcccaaaca 60  
 agggcatatt ccacgcactg ttttggcat ttaaggcatg cattgatgcg tttgcatttt 120  
 atgaacccat tgtgtgaatc tatggaacat ggctatatgg aagatacaaa gggacattgt 180  
 tagttgcaat ttcacaatat ggcgctaaca acatatttcc attggcattt gccattgtcg 240  
 agggtgagac agtagatggg tggcacttta ttttgagaaa cttgagaaca tgtgtgacac 300  
 cacaacatgg tatatgctta atctctgaca gatacgagtc aatcaaaagt gcatacagat 360  
 gaccgaacag tgtgtagaca gcagacaact catcacatgt gttctgtatt cggcacatat 420  
 gtcaaaaacta 430

<210> 7796  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 7796

cgtaatactc accacctcta tcagatctaa taattttcac ctttctatct aattgtcttt 60  
 ctacttcatt caagtaaatt tctaaggcat ccaactgcacg agggcagtaa gtagacataa 120

ccgtaacgtg aatagtcac aataaagggtg ataaagtatc tttccttttc aaaagaatta 180  
 acatcaaaag attcacaaat atcagtatgc acaatttcaa gaagctgagt gcttcttgta 240  
 gctcctttct ttgttttccc ttaatacaat ccacacaaat atttagattc gtaaaatcta 300  
 aatcaggaag aatttcattc tttattactc tttccatcct ttctctaaga atgtgacgta 360  
 aacatttatg ccacaagaaa gccgatcggt catcactaaa tatacggtta 409

<210> 7797  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7797

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 cgctccagtg ctagttttgc ctaacccgag agaaccattt gaggtgtatt gtgatgcac 120  
 aaagatgggt ttaggcggag tgttgatgca gaatggccaa gtggtggcct atgcttctag 180  
 acagcttaag actcatgaga ggaattatcc taccatgat ctagagttgg ctactgtagt 240  
 tttttccctt aagatgtgga ggcattatct ttttggtctt aagttcgagg tgtttagtga 300  
 tcataagagc ctttaagttat tgtttagtca gaaggagctg aacatgagac aaaggagatg 360  
 gttattgttt ctttaaggatt atgattntga gcttagttac catcctggta aagccaatgt 420  
 agtggtgat gctttgagta ngaaatctc 449

<210> 7798  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 7798

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 attgaacaat gcaagctctc gagaaattca aatggtcata acttttcaat cggaggaccg 120  
 attcatgctc ataatatatc gagacactcg aaattgaaca acggaagctc tctagaattt 180  
 caacatgggtc ataacttttc acatcggagg tccgattcat ggcataata tatcgagacg 240  
 ctcgaaatcg aacaacggaa gctctcgaga aattcaaagtg gacataactt ttcactcgga 300  
 gggttcgattc aggcgcataa tatatcgaga cgcacgatat tgaacaacgg aagctctcga 360

gaaattcaaa ctgtcataac tcttcactca gaggtccgat tcaggcgcat aatatatcga 420  
gacgctcgaa tatgaacaac ggaagctctc gag 453

<210> 7799  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 7799

gccttgagaa gattcctaaa gtagctagag cttagcttta cgctcctctc taatagctaa 60  
gctcacctgc ttgagatgag aagctagaac ttagctacac accccctata atagctgagc 120  
tcacccctat gacaaaatac atgaaaatac agaaaaaaag ttcctacttc aaagactact 180  
caaatgcct cgaaatacaa gggtaaaacc ctatactact agaatagcca aaatacaagg 240  
cctaaatgaa ggaaaaaacc tattctaata tttaaaaaga taagcgggct catacttagc 300  
ccatgggctg aaaatatacc ctaaggctca tgagaaccct atggccttcc cttagatctc 360  
tggcccaatc tacttggagt cttcta 386

<210> 7800  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 7800

cgctcgaaat tcaacactgg cagctccgca ccaattcaga tgggcatacc ttacactcg 60  
gaggttcgat tcacgcgcat aatatatcga ggcgctcgaa attgagaacc gagagctctc 120  
gagaaaaatca aatggtcata actctccact cagaggtccg attcatgcgc ctaatatatc 180  
gagacgctcg aaatcgaaca acggaagctc tcgagaaata caaatgggtga taacttttca 240  
ctcagagatc cgattcagtg cataatatat cgagacgcta gaaatttaac aacgaaagct 300  
ctcgagatat tcaaatggtc ctaactttaa ctcgga 336

<210> 7801  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 7801

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acctccaatc tttaatggag agggttacca ctactggaaa agccgaatgc aaatttttat 120  
tgaggcaata gacttaaaca tttgggaagc catagaaata gggccttata taccaccac 180  
agtagaaaga accacaatag atggaagcac aacaagtgga agcacaaca tagaaaaacc 240  
tagagataga tggctcgaag aggatagaag acgagtacaa tataatttaa aagccaaaaa 300  
catataatta catctgccct gggaatggat gaatatttca gggtttcaaa ttgtaagagt 360  
gctaaggaaa tgtgggacac tctacaagta acacatgaag gcacaacana tgttaaaaga 420  
tctaggataa acacattaac t 441

<210> 7802

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7802

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aaaagttatt gtagtttgaa tttgctcagg gcttcggat tccatttcga gcgtctcgat 120  
atattacggg actcaatcgg acatcagagt aaaaagttat tgttgtttga atcttctcag 180  
agcttcggta ttccatttcg agcatctcga tatattacgg gactcaatca gacatccgag 240  
caaaaagcca ttgtcgtttc aatgtgctca gggcttctgt attccattac gagcgtctcg 300  
atgtattaca ggactcaatc agacatccga gtcaagagat atagtcgctt gaatttgctc 360  
agagctacta cattcaattt cgagcttttc gatattattac gggactcaat c 411

<210> 7803

<211> 434

<212> DNA

<213> Glycine max

<400> 7803

acctgcgga tgcaagcttc agcctgatcg ctaagcgtca tactttttcg tggctaagct 60  
tgacctatta tcgccaagcg caattcctta cggccataag agtccctctc atctaagcga 120  
atgtgatgca atcctacccc ccaagggcat tggataaaaa actcgaagca gattggacca 180

aagatgcaag agaaggccca agggttctca tgagccttag ggtagatttc ggggccatgg 240  
gctaagtatg agcccactta tctttgttga tattagatta aggtttcatt aattttgggc 300  
cgtgtattta gggctccata atgtaggcag ggtaccctag aaatatagga tttttcagcc 360  
cttggatatt agggcaccta gaactagttt tgtattaggg gtagttttgt aatttcacat 420  
gcactaagtg aata 434

<210> 7804  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 7804

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tgtaaggcat ccattgccta agaaatctca ggcagtaagt agacataacc ataacgtgaa 120  
taatcatcaa taatggtgat gaagtatcat tcctttctga cagaactaac atcaaaaggt 180  
ccacaaatat cagcatccac aatttcaaga agctgagtgc ttcttgagc tcttttcttt 240  
gtatgttatg gttgttttcc cttaatacaa cccacacaaa tatttagatc cataaaatct 300  
agataaggaa gaatttcatt ctttattaat ctttccatcc tttctctaga aat 353

<210> 7805  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 7805

atctaagaga cttctctgtt aagctagatc tttatcatatc acaccctctt attaaactaaa 60  
ttaaccttct tataaataat tacggatgaa aataacgcaa caaataatca aacatcaaac 120  
ataattacta ataatatata gatatatata tcatgggtgtt acagggtatgg agtatcaaaa 180  
gattcatgct tgcccgaatg attgcatatt gtacaaacat gaatttcaaa aaatgccaaa 240  
atgccctaag tgtgggggtat cacagtacaa agtgaaggat gatgaggagt gtattaatga 300  
tgaaaactca taaggcccg cagcgaatgt gttatgggtat cttgccatca ttccaagggtg 360  
taagcatctg tttactaatg gagac 385

<210> 7806  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7806

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aagctcatct cttccttgag atgataagat agagcttagc tacacacaca ccctataata 120
gttaagctct ccccatgcc aaaatacata aaaatacaaa aaagtccta ctacaaagac 180
tactcaaat gccttgaaat ataagactaa aaccatatac tactagaatg accaaaatac 240
aaggtccaaa agaaggaaaa acctattcta atatttacaagaagagtgg acccaatctt 300
ggcccatggg tcagaaatct accttgaggt tcatgagaac cctagggcct tctttaacag 360
ctctagccta atcctctttg agtcttctat ccaataccct tg 402
  
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<210> 7807  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 7807

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tgtaggggta aagtctcacg aaagcacttg ctcatgcttc atttgttagc cgcggctata 60
cgagacatct tgccaaacaa agacagggta gcgataactc gcctgtgctt tttcttccat 120
gctatatgta gcaaagtcac tgatccagtc atgtttgatg agttagaaaa tgaggccgca 180
attatactgt gccagttgga gatgtattct cccctgctt tctttgacat catgattcac 240
ttgattgtgc atctggtcag agaaatcaaa tgttgtgggc ctgtttatct acggcggatg 300
tactcggttg agcaatacat gaagatcata aaatgggtata caaagaatct atatcgtcca 360
gaagcatcta ttgttgagag gtacattg 388
  
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<210> 7808  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7808

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ttgggataaa gggagngccg ccatgttttc aaagcccgga ctaaagcata caactcctta 120  
tcataagttg aatagctaag ggtaggacca cttaactttt cactaatata cgcaattgga 180  
tggccttttt gatcaacaca gcccgaatcc caacatgtga agcatcacac tcaatttcaa 240  
aagatttttg aaagtttggc aacgcaagta t 271

<210> 7809  
<211> 340  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7809

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tgtagaagca gagcaaattg ttgaagaccg actntattca taaagcagaa taaatcactt 120  
ggttagccaa tgtggttatg gtgaagaaat caactagaaa atagaggatg tatgtggatt 180  
atagcgacct caacaaagta aggatgctta ccatttgcct aacatcgaca aattagttga 240  
tagggcatgc aggttttagat tactatattt tctagatgcc tacacgggct ataatacaat 300  
caagatgtga tacaatccta cccccaagg gcattggata 340

<210> 7810  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7810

tctcgatatg ttatacgctt aaatcggatt tctgagtgtt tagntatgac catnngaant 60  
tctcgagacc ttccgttggt caatttcgag cctgtcgata tattatgctc ctgaattgga 120  
cctacgagtg aaaagttaag accatatgaa ttgctcaaga gctaccattg ttttaatttcg 180  
agcgtctcga catgtgatgc gcctgaatcg gacctccgag ttaaaagtta taaccatatg 240  
aatatgtcga gagcttacgt tggtcaattc cgagcgtctc tatatgtgat gcgcctgaat 300  
cagacctcca tgtgaaaagt aacgaccatt tgaatcgctc cagagcttct attgttcaac 360  
ttcgagcgtc tcgacatgtg atgcgcttga attcgacctt cgagttacaa gttatgacca 420  
tatgaacatg tcaagagc 438



<210> 7811  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7811

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 ctgacataag cttcaaccaa ttaacattgt ttgtatgaca actggttag ttggacagca 120  
 atcacacagt ttgtccacca tggtagctt tatgttccta ttggttatag ttttagtatg 180  
 ctttatgttc ctattggtta tagctttggt gctggaatgt tcaatttgga gtccacaaaa 240  
 ggaggaactc catatggtgt tggagttttt gctggagatg gtacaagaca agcaagtga 300  
 atggagctgg agctcgaga gtatcatggc aagtatatat gaaattagcc cataaaagct 360  
 agaatggat 369

<210> 7812  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7812

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 ctccaatgaa taaatcttta taagtaaaac atgtatgttt attctaactc accccatctt 120  
 ggagcttgct ctctacagca gtggcaccaa gaagaattag gttcttctca atcttatctg 180  
 atacttcctc aatcattata tcctgatcag cactgactac attcttggcc ctagagaatt 240  
 tactatcaaa ctcttggtat tcttctgcat caagttcacg ataggccagt ataagggttc 300  
 tcagaccgc atcagcatac tcatgcacat gctccatggt tntctcttca aactcccttc 360  
 tattcttggc ngcctttcaa acatggtgct gcatgaaaac atcaactc 407

<210> 7813  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 7813

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ataaatggga aagttgggac aattatacaa gtttatacac aaagttagtc gttctcaccg 120  
actaacactg gcgtagtata tagcatgaaa taaaattccc ttcctttgcc caagcactgc 180  
acctacgacg taatcacttg cattacacat cagctcaa at tcttgcccc aatctagtgc 240  
tgtaattact ggagcaaaca ctaatctggg tttcaa atca ttaaatgcat ccatacactc 300  
ttcattaaac acaa atgcaa catctttatt caacagattg ctaagtgggt tgggtgactnt 360  
ngagaaatct tttta 374

<210> 7814

<211> 291

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7814

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ttcttcta at taaaaatcta tcttactttt tacttaagtt atgaattccc ttaatgataa 120  
tcttcttaaa tattaattca aatgaagcaa cttgaatatg aatataaagc aataataaat 180  
aaaggagatt aagggaagag aaaatgccaa ctcagtttta tactgggttcg gccacaccct 240  
tgtgcctacg tccagtcccc aagcaaccgc cttgagagag ccactaactt g 291

<210> 7815

<211> 370

<212> DNA

<213> Glycine max

<400> 7815

accgagagga ttggaaacat aaaattcctc ttcaatgtat ccatttagga aaacactttt 60  
gacatccatt tgggtataact tgaaatcgat aacataagca taagctaata acaatcttaa 120  
tgcctctcat cttgctaccg gtgcataggt ttcaccaaag cctataccct cttgttggtt 180  
atagccctcg gctactagcc attctttatt tctagtgatc aaaccatggt cattcaattt 240  
at ttttaaac acccatttta gtgccaatga tgttcatggt ttttgaataa aggactaatt 300  
cccatacatc atttctttta aatcagttca actcctcatg catggatatt atccaaaact 360

catctttgag

370

<210> 7816

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7816

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atcacttctg gcacttaaata gcttagaagt tggaaccctc ctctcaaata aaattttggc 120

tttaaccagg ggcattgtctt ccaaggcttc aacccttaca acaactaata tactttctctt 180

cattggtgtg agtccctcat aaaaaatatg gagaaaaaac tgctctgaaa tctggtggtg 240

aaggcaacta gcacaataat tnttaaactct ctcccaatat tcatatangc tctctccatt 300

gagttgtcta atacctgaaa tctcctttct gatggccatg gtccctggaag tanggaaaat 360

tttttctaag aatactctct tgaggctcgc ccaactcgtg at 402

<210> 7817

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7817

atgtctctta tggccatgac tatcatttgn tgtatcaagt tgtggcaanc angagactnt 60

aagcctacta atttaagatc tttcaactgc acttggtctt taatatttga agagtatcct 120

tgtgggactt tgacctggcg tagacactga aaaaaactga tcttctcctt tctgggcaaa 180

gtatgacaag ctggaggcaa gtatatTTTT taccatcaga ccttagatgt aactgcgatc 240

gtatatccat ctgagctaga tcttgacaag tattcaaata atctttcgtc ttgccttgaa 300

tgttaagagg cgtcccaatg acactatcac atatattttt cttcacatgc ataacattaa 360

tacaatgtct aacatctaga tcataccagt acgcaagatc aaacaaaatc gacctttttt 420

tccatatgca aggcttactt 440

<210> 7818

<211> 305

<212> DNA  
<213> Glycine max

<400> 7818

gatgcccata ctagagcaca gcacgttctt tacagaaggg agtagttcat gtcacacgcg 60  
cgtgaactat ttactcaagt agtagacggc gcgctctctt ttcccagact cgacatgttg 120  
ccccagcata caccctattg acttgtccaa aatcgtcata tacaagatga gaggtgttcc 180  
gggcaccggc ggccgaagca ctagagggat tatgaggcac tgattgatcc tgccatacgc 240  
ctctagacag tccttgatgc aacggatgga ttggctcttg cataacagct tgaacaacgg 300  
ctcac 305

<210> 7819  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7819

agcttctcct ctngaagctn ctattgcnet tttttcccaa ataggcactg ngngngctc 60  
tggaatctgt gccctttctt ctgcctacaa tttgtctaaa agtttgtaaa agtgtgtgtc 120  
aaagtgtgtg taccctaatt ctgcacaaga taggctttaa ataagctcta aattcacgac 180  
gttgcgctta gggccaccct atctgatgca agctccatta gagcttgtag gcctaggatc 240  
ttcttcatca atggattcct ttgcttcttg gaagatgaat ggcagcggaa tgaagaaagg 300  
aagagagaga ggagacgcca cttcaaggag aagatgagtc tagaagaagc tcaccaccat 360  
aggaggccat ggataagagc tt 382

<210> 7820  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7820

tatgctgcan acatctacaa tagatctcct caacctcatt tagttaatca gccacaacag 60  
aacaattatg acctctccag cagcaggtac aatccccggg ggaggaatca tcccaacctt 120  
agatggtcga gtccttcaca acaacagcaa caacaacagc cttattttca gaatgttgtt 180

ggcccaagca gaccatacgt tcctccacca atccagcagc aacaacaaca acaacaacaa 240  
 caacaatagc cccagaaaca acaaacagtt gagggcactc cacaaccttc ccttgaagaa 300  
 cttgtgaggc aaatgactat gcaaaacatg tagtttcaac aagagaccag agcctccatt 360  
 cagagcttaa ctaatcaa at gggacaattg gctacacagn taaatcaaca acagtcccag 420  
 aattctgata gattaccttc tcaatctgtc cataaatccc aaaatg 466

<210> 7821  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 7821

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 aagggtttat tggagatatt ccttattgct taggtttgca tatcatatcc caaaaaataa 120  
 taaatttatg attaaataat ataaacatat taaagtacaa agaaatagac atcatattta 180  
 tatatcatct ctatatatta tcatctttcc attctttaca gctatctttc aatattttta 240  
 atactcattg atatattgag aaatgtttta aaaagtaaaa tattattata tttgggttaa 300  
 attcttattt taagcatatt acattgggtg tgtggaaatg gatcactgga caaatcaata 360  
 tgacaaaaga aatgttcatg gaagtatgct aattgataag caataacctg atggcattga 420  
 tgggataggt tggta 435

<210> 7822  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 7822

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 tgcattggtg tggaaacaaa tcaaagcgcc actgattgtc cggttgctga gactagcagt 120  
 gtttctgtgc ttgatcatgt cggatgatgat gttcattgag agagtctaca tgggcattgt 180  
 catcactctg gtgaagtgtt ttgggagaaa gccagagaaa cgttacaagt gggagccaat 240  
 gaatgacgac attgagttgg gaaactcttg ttaccaatg gttcttggtc aagtcccat 300  
 gtacaacgaa agagaggtac tattaccaat aaggcaataa cttagttttt tttctctatc 360

atcacttcta acacttatac tata

384

<210> 7823

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7823

agactcaagc ttcttggggt tggctggcta ttatagaatt ttcacggaag gtttttctaa 60

attggcatng cccctaacta agttgactcg taagaatgag aagtttggtt ggaatgagaa 120

gtgtgagcaa agtttccaag agttgaagag gcggttgacg acagctccag tgttaatttt 180

gcccgaccct aagagaacat ttgaagtgtt ttgcgatgca agcgggcaag gcttgggggtg 240

tgtgttgacg caagagggaa gagtaatggc ttatgcttca cgtcaattac gtcctcatga 300

agttaactac ccgacccatg acttgggaact agcagcgggtg gtctttgcct t 351

<210> 7824

<211> 352

<212> DNA

<213> Glycine max

<400> 7824

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tgtaacaaat cttctagact tggagtgatc acatgcagtc ctcttgaacc cttgccaccc 120

actctatcat catgccgaga cttagaaagg ccaacagggt tagccttctc aatatattct 180

tctgcaatgt acctctcaac aatagatgct tctggatgat atagattctt tgtataccct 240

tttaagatct tcatgtaccg atcaaccggg tacatccacc gcaaataaac aggaccacaa 300

catttgattt ctctgactag atgcacaatc aagtgaacca taatgtcaaa ga 352

<210> 7825

<211> 326

<212> DNA

<213> Glycine max

<400> 7825

tgaagctcaa gaaaatttt gaagatgttt tataagaagt tgtggctttt agatgttatt 60

agcagcttca actaccccat tcatcttggg cctgtatggc gtggaattat ggtgttggat 120  
cctgaaatcc tcacacattt ccttcatcat tttgttgttc agattgggtgg cattatttgt 180  
gataatcttc ttgggcaacc cataccggca gattatctct ttcttaatga acttgaccac 240  
cacactcctt gtcacactgg catatgaagc agcttcaacc catttgggtga agtagtcat 300  
cgcaacaaaa atgaagcgac gtctat 326

<210> 7826  
<211> 356  
<212> DNA  
<213> Glycine max  
<400> 7826

ctacatatta ctcacagctt tatcctctta aaagattaag agtttttctt tactaaaatg 60  
ttttatcctt tcaaaaagat tccttgggtca accacttgca tattcaataa ggaattttga 120  
ttggtcttca ttttacaatc tacctctttt aagagagacc tcttcttctc ttcttcttat 180  
ttctgaaaag ggattaagag accgtgggtc tcttgttgta ggggattctt gaacacaagg 240  
gaagggttat ctctgtgtgt attgttaatc caaagagaga gtgaaagttt aattggggaa 300  
tagtctttgt ttctaaattc aacccccct ttttctgagg ccatttgtcc aacatc 356

<210> 7827  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7827

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ggacatgaca ttcaaaggat gtggcggaac attgacattg tctgcgtacg cttgacattt 120  
atggcatttc cttacatggg tgcagcaatc gctttccata gtgagccagt aataacctgc 180  
tctaaggatc ttcttgcca tagcatgcc attggcatgt gtcccaaag aacccccatg 240  
gacttctca atcatgtaat tcgctctttt ggcattctacg cagcgtaaga gggtcattgt 300  
tttgtttgta caggacggta cactcacia agaaaccagt agccaatctc cttaacgtta 360  
tnttgcatt gtcggaaatc cctgggtggat attctttgtt ctgcacata 409

<210> 7828  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 7828

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 tctattttca gattgggaat gcctctaaca gcacctttgt caatgatttt cttcatgcct 120  
 cttaagtgca gatgtccaaa tctttgatgc catattctga cttcatcttc tttggagaat 180  
 agacatgtgg aggagcaact ggtttcttga ggtgtccata ggtgacaggt gtcctttgat 240  
 ctgctgccct tcattagaac ttactcttc tcatttgtca ccaagcattc ggactttgtg 300  
 aagattccat ggaatactat catcaca 327

<210> 7829  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 7829

ttcttgacca ggaattattt gtgtgggttg gatgttgaat tctgggtgtt cctggtgagg 60  
 agatgatggt acagaggggtg aaccaggagc tgaagtttct tttggtgagg tagccatgga 120  
 aaagcagagc gtttggaatg atttcgtaaa tttctgagag ctggtgggga atgcagacaa 180  
 tgagattaac acgaaaatat aagtttgaat gaggaatgta gagggacgtg tgaatcaacg 240  
 cgcgaaattg ctttggttca gtagtgaacg tgctattaat gttaagtgat tcgtttgggc 300  
 acgttcagat atcagtagtt gctacaattc ctctagcaga caaatgccca gcttgcccct 360  
 cagtatttca aactgttttg caatcaatgc ctttgtgaaa ata 403

<210> 7830  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7830

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 gaagattgca gctccccctt catagttgct gggcaatggt cccttcgggt ggacggagat 120



ggcgactgag gcgttcaaca cactgaaaaa agcagtatcc acagcaccag ttcttgcatt 180  
 acccaatttt gatgtcccat tcgtggtgga gaccgatgcg tcgggtaccg gcgtcggggc 240  
 agttctttct taggtgggcc accctatagc attcttcagt aaggagttct gccccaaact 300  
 ccgagcttcg tctacatata tccgtgagct tgcagctatc acgatggccg ttaagaaatg 360  
 gcgccactac ttgctgggtc antcctttgt gatcctcact gatcatcaaa agttg 415

<210> 7831  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7831

ctcacgctta acatccccag actggccttc aacgggtttt ctctctnngt tgtctgcgct 60  
 atngacaagt tacagtctaa caatactaac tctgaggaat attcctcttt cattccgaat 120  
 ctccgcctc ctatcacgtt aaacgcaaca ccaccgaaga tattgaccga gttcatgaag 180  
 ccaactgctgg aaacagagct caaaagctac ggcttaatcg tcaacgactt tgcgggaactc 240  
 ggaggagaag agtacatcga gcactatgag caaaccacgg gtcacaaggc gtggcatatt 300  
 gggccagcgt ctcttatgtg caaaagaagc cttgaagaga aagcggagag gggac 355

<210> 7832  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <400> 7832

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 ttcttctgat gagtctaattg ccattcttcc aaggaaggat ttttttagatg atatttcaga 120  
 ttcttagaa gatacacata ttcatggaaa tcattctaaa gaaaaagacg aaggaagaaa 180  
 tgaggattct caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc 240  
 ctcaagagat catccctcgc acaacattat tggatgata tcaaaagggg taacaactag 300  
 aactctctt aaagatttat gcaataatat ggcttttgta tctataattg aacctaaaa 359

<210> 7833  
 <211> 371

<212> DNA  
<213> Glycine max

<400> 7833

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agcttgacca ggaattatTT gtatgggttg aatgttgaat tctggttgTT cctggtgcgg 60
agatgatggt acagcgggtg aaccagaagc tgcagtttct tttggtgagg tagccatgga 120
aaaacagagc gtttTgaacg atttcgtaaa tctcggaaaa ctattgggaa atgctggtaa 180
aaacacgaat gccaaGcaga tataaatttg aatgaagaat gtagagaggc gtgtgaagca 240
acggtcgaat ttgctttgtg gtgaacgtgc tattaatgtt aagtgattcg tttgggcacg 300
ttcagattgc agtagctgct ataattcctc tagcagacaa atgccagct tgcccctcag 360
tttttcaaac t 371
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<210> 7834  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 7834

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tggatatctg gcagcagaaa aacaagtagt tgagaactaa gtaaaaggaa atggcttctt 60
caatgatctc ctccccagct gttaccaccg tcaaccgtgc cggtgccggc atggttgctc 120
cattcaccgg cctcaaatcc atggctggct tccccacgag gaagaccaac aatgacatta 180
cctccattgc tagcaacggT ggaagagtac aatgcatgca ggtaagacaa ctccacacat 240
atatacacac aagaggcacc aaaaagttta aaattcatct tacacattta tatatgctcc 300
aaaatgttac ttaatttaac atgttagtca taggttactt aaattaacat gttaa 355
```

<210> 7835  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7835

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agcttgtagg ccttggatct tcttcatcaa tggagtctta tgcttcttga attttaatca 60
caggggaatg gagaagaaga agagttgaga ggagacacca cttcaaggag aagatgagtc 120
aagaagaagc tcaccaccat agaaagccat ggataagagc ttgaaggtag aagaagatga 180
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atggagggag agggagagaa ggagcacgaa attttatgcc tcaaaagagg tctgaacttt 240  
gaagtttaaat tctcaaatga tcaaagttga aaaaattcac acacatggcc tctatttata 300  
gcctaagtgt cacacaaaat tggaggggaaa tttgaatttc tattcanatt tcaacttgaat 360  
tttgaaatga atttgtgaag ccaaattttg gagcccaaat ttcactaatt atgattag 418

<210> 7836  
<211> 337  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7836

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aaagttattg tcgtttgact tttcttagag cttccgtttt caatttcgag cgtcttaata 120  
tattacaggg ctcgatcaga catccgagtt acaagttatt gtcgtttgac ttttcttaga 180  
gcttccgttt tcaatttcga gcgtctcgat atattacagg gctcaatcag acatccgaga 240  
taaaagttat agtcgtttga cttttcttag agcttccgtt ttcaatttcg agcgtctcga 300  
tatattacag ggctcgatca gacatccgag ttaaaaag 337

<210> 7837  
<211> 350  
<212> DNA  
<213> Glycine max  
<400> 7837

atgcttgaga aaattctaac gtcaataact tttaactcgg atgtctgac gagcccagta 60  
atatatcaag acgctcgaaa ttgaaaatgg aagctctaag aaaagtcaaa cgacaataac 120  
ttttgactcg gatgtccgat tgtgtccctt acgatataaa gacgctcgta attgaaaacg 180  
gaagctctga gaaaaatcaa acgacaataa cttttaactc ggatgtccga ttgagccctg 240  
taatatatcg agacgctcga aattgaaaac ggaagctcta agataagtca aacgacaata 300  
acttttgact cggatgtccg attgagccct gtaagatata gagacgctcg 350

<210> 7838  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 7838

agcttggtttt tctagtagtg ttagatgtct tgcataatata tcaaaaaacta tttatatttat 60  
ttcggttcata acttaatcaa ataaatttta aaatatgaaa atcattttctc aattttttatt 120  
tgaatcttaa tagttgaaaa ttttaaaaga taatgaattg agagaaaatt gattatatatt 180  
tgtaaaaaacta atttaaaagc tacctgaaag ctggaaaact aattgaaaaa tgaaaaatta 240  
gcagcttgta accaaaagtt gaaaactttt aaattaactt attaaatcac aagtgtttga 300  
taaaactata tgttgaaagta gttgaaaaat gtaaaatgac aagaatagaa acatttatat 360  
gatattttat ataaatttta attttatttt atgggataaa tatt 404

<210> 7839

<211> 343

<212> DNA

<213> Glycine max

<400> 7839

gaacactcaa gcttttagatg aatatactta atgtacataa tttatatttt tataacatga 60  
atacactaca aaagtttaaa aaaatcgcat catatattct tataaccctag ccatgaaatt 120  
ttatatttata ttaattcatt ttctattgca tcaacatctt tttttacaca aataagaata 180  
tgaatataat aatattaatt ttcagaagtt actgatttgt ttggttaagg acttgggcaa 240  
agaaaagata attaaataaa aaaatttact caatgtgata ccgtgcaagt gaaaacaaca 300  
ccaggacacc taggagtacg taacaggaca tgccacataa tgg 343

<210> 7840

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7840

agcttacaaa ggggctcatc aactccttga gtgaaagtag caatcactgg cttctttnga 60  
ttgatcttgg attaagggaa aaatctattc aagaaattgt cacaaagccc atcccaagtc 120  
aaaggaaagc taggaggaat agcttggtac caatgctcag ccttgtcagc aagtgaaaat 180  
gagaaaagac taatacaaat gaaatcatca tccacttgat gaatcttcac tgtattgcaa 240

atatgcacaa aggtagtcaa gtgggcataa tgatcttcat aatcaaagcc atgtaacttg 300  
 ttttgttggg ccaatccaat gagagatgcc cttatttcca cattgtgagc caccacttca 360  
 tgttgga aaa caagtgaatt gggctctagt ctagctagcc tctcta 406

<210> 7841  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <400> 7841

agcttcttcc ccatgagcag cctcatcacc tatctccata tcctcttcag acattctcaa 60  
 cggaacaaaa attctaata agaggcaa at caaacttgctg ctgataacat tgacaaagat 120  
 aacaaagata atcccaagga tttggacccc catttgccctg aaccgggtac tgaccttctt 180  
 cgaacctaaa ccataaaaga aaccaacgta ttgaccatca gttccataga acaatttggt 240  
 aagtcttggg tcagcaaaga gtccagtggg gagtcctcct agggttcctg caatggcatg 300  
 agtgtggaac actgccattg tatcatcaac cttctgcagt agctttgatc tcttatggac 360  
 caccatcatg gtgaaccatg gaattgagcc agataacact cccatta 407

<210> 7842  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7842

agctttccct cttcatagaa caataggggc ctaaagaacc attgccctga tgagattatg 60  
 actatgtcaa agttttcaac caggcttgct catgcttcat ctgcctcatc cacatacagc 120  
 ttcatgatgc tgttgtaggt gtggcctctg gggctctgat cactggatct cacaaaatat 180  
 ggagaccaca ggtttccaag tgtgaaattg taatcatgat agaaataacg tttgaagtat 240  
 accacatctg aagagtattt gtgagaaaca tcctcaggct cagacaccta aaaaaagtaa 300  
 aaccacataa gcatgtttta ggattgttat cttcatgagt aggactnttt taacatgacc 360  
 aaggtttaaa aaacagttca cg 382

<210> 7843  
 <211> 353

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7843

atagaacctc aagctnatac agaaatacat attttccagc aacattttga tggcactaca 60  
 acaatacaac atacatcaca tggaaatatt agattacagc cagacacaat gcatagatgc 120  
 tactgtgttg ggtgctttgc tacattgccca catgattttc tggtagagga actgtttgga 180  
 ggggatcaaa ttcaataaag aatgtccgaa tctccatcgg agcaagttca accaccaact 240  
 tcgtaggatac aacaggctcct cctctcacca ccttcgggttc ttcagtggag ccttctacct 300  
 tccaatctag cttcctcttt tccatttgag ctctttcttg attagcagac aaa 353

<210> 7844  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <400> 7844

agcttgagct tatttttagat gaccaatttt aaaaaacaaa cttgagttaa aagaaaatgt 60  
 tgtcattggc caaaatagat tatttagtga ggattaacct atctagtacc aacttctaga 120  
 ataatatctg aatatgccca aatattttta tgttcgaaaa gttaatgaga tatttttctt 180  
 tatgattcaa cttaaagata gaacaattta agtaaaatat ttggaatcaa taaaatgttg 240  
 ttggctgaaa ttaattatac gattaatttg ttttagataa attgtatgat tgattcttta 300  
 ccattattat ttactagtcg gtaaccogta catacgcacg ggtgggtccg ccaattgatt 360  
 tttgatgaat 370

<210> 7845  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <400> 7845

tacgagcgac tcgatatata atgcacatgg atcggacctg tgtttgaaaa ggtttgacca 60  
 tttgaatttc tcgagagcgt cccttgttca atttcgagcg tctcgatata ttatgcgcct 120  
 gagtcggacc tccgagtga aaggtatgac cattggaatt tctctagagc ttccgttggt 180

caatttcgag cgtctcgata tattatgcgc atgagtcgga cctctgagtg aaaagttatg 240  
 accattggaa tttctcgaga gcttcogttg atcaatttcg agcgtctcta tatattatgc 300  
 gcctgaatcg gacctccgag tgaaaaggta tgaccatgcg aatatctcaa gagc 354

<210> 7846  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7846

agctntggag aaccaagcca atcagaatgc tagacgaaat attatgggaa tagaggtaac 60  
 aatggcggtg atgacggacc gaggcagaac cgggttgagg gagtaaagct caatgttcct 120  
 cccttcaaag gtagaagtga tccagatgcc tacctggact gggaaatgaa gactgagcac 180  
 gtatttgctt gcaatgacta cactgatgcg cagaaagtca agctagcagc agctgaattc 240  
 tccgactatg cccttgtttg gtggcataaa taccaaagag aaatgttgag agaggaacgg 300  
 cgagaggtag atacatggac tgagatgaat aggggtgatga gaaaaaggta tgtgcccact 360

<210> 7847  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <400> 7847

tgcttgaac ttcctgggat ccctttgtcg ttgtcttcg gttaggggtga agcttaagga 60  
 gaaccaatc tcctatctgg tagttcactt cgcgatgttt cccatcaact tggcttttca 120  
 tagcagctta agccttgaga agcttatttc gaatagcttg gaaagtgtta tccctatcag 180  
 tcaacatctc ttcaatggcc tcaatgttcg aagaccctgt aatatattct ggaaagttaa 240  
 aggggttttg gcaaaaggcg acttcataag gagtggctcc agttcccgtg ttccatgaag 300  
 tattgtggga ccattcgacc cacgggagga gcttccccca caagc 345

<210> 7848  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 7848

aaactcaagc ttnggaaaat gattttctata caaaagttag ttttataaag ngttttacag 60  
tggtcgacaa aagcgggggct tttgctccta cgtatcctta atttgtgata aggaactcag 120  
acctacgtag ttcttgcaag cgggtgtgaga ctaaaatagt ctcggtgttc tttcactaaa 180  
atgcgaacat gcttttagtaa agaaacaaaa cctctaacta attagagcaa catattaatt 240  
ttggagaaaa acaatgtgtc tattggagaa ggagagtatg ttgataaaaa ttttcttgta 300  
accacaaatg agattttgga tgttagcggt ttgtttctaa acaaccattt agaggaaaca 360  
ctggg 365

<210> 7849

<211> 368

<212> DNA

<213> Glycine max

<400> 7849

ctctaagtca cctgcggctg cactctactt atcaaagaa ctctgatacc cttgtgacat 60  
gcctctgatt ctaagaagag gggggggttg aattaagata tcacaactta tttccccaat 120  
taaaattcta tttcactttc tattcaagtt ataaattccc ttaataatga atttcttaaa 180  
tattgattca aatacaacaa tttgaatatg aatataaaac aataataaat aaaggagttt 240  
aagggaagag aaaatgcaaa ctacattta tactgggtcg gccacaccct tgtgcctacg 300  
tccagtcccc aagcaactcg catgagagtt ccactatctt ataaattcct tttacaagtt 360  
ctaaacac 368

<210> 7850

<211> 353

<212> DNA

<213> Glycine max

<400> 7850

gcttgagaat ggaggatttc cttgagggtc ctttcttagg caattttgga actttactcc 60  
aaactcaaaa atggaggaca catgaatgac aacgccattc attcatgggg ctccgaaaaa 120  
gggtaagaat ggaggatttg cttgagggtc ctctcttagg caatcatgga acacaactcc 180  
atactctaaa gtggaggacc cacgaacagg cctaagcaat agcattcatg tggtccgaa 240



aaaggatgag aatggaggat tgccttgagg gtcctctttt aggcaatcat ggaacacagc 300  
 ttcaaactcg aaaatggaag acacatgaat gacaacgcaa ttcattcatg ggg 353

<210> 7851  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 7851

tgcaagcttg aatcggacct cagtgtgaaa agttatgacc atttgtattt ctogagagct 60  
 tgcggttggtt agtttcgagc ctctcgacat attatgcgcc cgaatcggac atccgtgtga 120  
 aaagttatga ccattagaat ttctctagag cttccgatgt ttaatttcga gcgtatcaat 180  
 ataataaag cctgaatcgg acctcagtgt gaaaagttat gaccatttta atttcacaag 240  
 agcttctggtt gttcattttc gagcgtctct atatgtgatg cgccttaatc cgacatccgt 300  
 gtgaaaactt atgaccattt gaatttcttc agagctctcg ttgggttaatt acgagccttc 360  
 tcacatatta tgcgcccga tggga 385

<210> 7852  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 7852

tgtaagattt gcaagatcat cttccttgat tactccttga aaattattgc catcaatcca 60  
 aagagatgac aatttagaga gtgatccaag actttcaa atgatttccac tgaatttatt 120  
 aatagagaga tcgagaaatg ttaaacttat ctcccttgag ttgcggagat ttccccaaaa 180  
 agtcggaatt gttccttcaa gttgattata tgacaaataa agtgcaacaa gagaagtcaa 240  
 atttcccaaa gaagttggaa tgggttcttc aagttgatta gctgataaat caagttcaac 300  
 aagagaagtc aaatttccca gggcatcaga aatagtccca tg 342

<210> 7853  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 7853

atctttcttcc ggaagttagt ttttttaaaaa aaatatatatt tattttgttaa taatttactt 60  
 ttaattggat aaaataatatt ataaaaataat taatactatt atacataaat aattaaataa 120  
 ttagtgaacg taattatgac taatatttat aatttggttt ctacgcgcat gtcaaatatt 180  
 aattgtgtga caatttagta taatttaaatt cattaaaatt aattaatgcg tacattttat 240  
 taaaaaatat aaatatttat tatgataaca ttaatttttt attacaaaag ttatattttc 300  
 ttaacaaaat gatatttttt tgttaccaaa tggagaataa aagaattttc atttttatta 360  
 ttaggtaaaa taa 373

<210> 7854  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7854

atctttacag cagatgccac tctactccaa attcttgaag gatatgttaa caaggaaaca 60  
 taagtacatt caccaggaaa acattatagt ggaaggaaat tgtagcgcta tgattcaaaa 120  
 gatcgttcca cataggcata aagaccctgn gagtgttaact attccttggt caattggaga 180  
 agtcactgtg ggaaatgctc ttatcgactt aggagccagt ataaatttaa tgccactctc 240  
 catgtgtaga aggttggggg agttggagat catgcccact aaaatgactn tacaactgac 300  
 tgaccgctct attaccatac catatggagt aattgaagat atgctggtca 350

<210> 7855  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <400> 7855

tcaagaatta tggcctcatc aaactacttg tttcccgagg gtaattctat taatagacct 60  
 cccatcttta atggagtggg ttaccactat tggaaaaccc gcatgcaaat ctttatagag 120  
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctatagtg 180  
 gccggaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
 gtacaatata acttaaaggc caaaaatatt attacatctg ccctaggaat agatgaatac 300  
 tttagggttt caaattgtaa aagtgctaag gatatgtggg ata 343

<210> 7856  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 7856

tgtagcaaat gcaaacggca ataacgtttt tctcggatgt tttattgagt cacgtaatac 60  
 atcgaaacgc tcgaaattga aaacagaagc tctgtgcaaa ttcaaacgac aatacatttt 120  
 aactcggatg tccgattgag tcccgtata tatcaagaca ctcgaaattg agaataaaag 180  
 ctctgaacaa attcaaacga caataacttt ttactcggat gtccgattga gtccagtaat 240  
 atatctagac actcgaaatt gagaatagaa gagctgagca aattcaaacg acaataactt 300  
 ttactcggga tgtccgatgg agtcccagagc gtctcgatat attatgcgcc 350

<210> 7857  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 7857

agcttaactc ggatgtccga gccgcgctca taaataatcg agacactcga tattgaataa 60  
 cagacgctct cgagaaattc aaatggatcat aacttttcac acggatgttc gattcggggcg 120  
 cataatatgt cgagacgctc gaaattgaac aacggaagct ctcgagaaat tccaatggtc 180  
 ataacttttc actcggagga ccgattcagg cgcataatat atcgagacgc tcgaaa 236

<210> 7858  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 7858

tatgaatgca tatgctacta gcattcctga ggcttctaata ctagcaactg gagcatatgt 60  
 ctctcataaa tctattccct cttcttgatt atatcctttg gtgactaatc tagccttatt 120  
 ccttataact atgccatttt catctaattt atttctaaat acccattttg ttccaatgat 180  
 tgggtagttt tagggtttct cgactaactc ccaaacatta tttctttcaa attgggttag 240  
 ttcttctctgc atagctatta tccaattttc atttattatg gcttcattta aatttttagg 300

ttcaatcata gatacaaaat catgttattg cataaatctt 340

<210> 7859

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7859

agcttatgct gcattcattt ataatagacc cctcagtag caaaaccaac aacagcagaa 60

taattatgat ctttcaagaa acagatacaa tccaggttgc aggaatcatc caaatctgag 120

atgggcaagt cctccacaac aacaacagtc tatccctcct ttctagaatg ctgctggtcc 180

aagcaagcca tatgttcctc ctccaatgaa gcaacagcag caacaacaac aaagacaaca 240

agcaattgag gcccctcctc aaacttcctt agaagagtta gtgaggcaaa tgaccatcca 300

gaatatgcaa tntcagcaag agacatgagc ctncattcag agtctga 347

<210> 7860

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7860

taataatatt cctgaaactt tagttttttt tagaaccgng atggatgacg tcttgtgatc 60

tatgtatcog atctcaccta ttgggataaa agcttagttg ttgtttcaat tatcatattc 120

agtttttatt tgacgatttc tcatttttat gcctttggta ttcaatttta ttccatgtgc 180

ctaaccaaag tatcttggtg tgtatttaaa ttttgttttc aaggcaaggt tcctctatta 240

tctgtggagg cactgcatca cttcataca tttatttttg tcctaacttg ggcccatgtc 300

acattttgtg ttctcactgt tggttttgga gggc 334

<210> 7861

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7861

agcttttgatt tcctttgttc cggaacacctt tgttttctca tgtgcaccca aacccaatct 60  
 ccgggttcga agacaacacctt ctttctccct ttgttggtt gtttagcata gcttttactt 120  
 ttctctctcaa ttgatcttt gactctctca tgatgcttct tcacatagtc cgcctttgct 180  
 tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaggagtt 240  
 agtgggttaa aaccataaac aacttcaaaa ggaaaacaat tagtggtgct atgaacagct 300  
 ctattgtnag caaattcaac atggggtaaa caag 334

<210> 7862  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 7862

tgctaactta tggaagctcc taatatcttt cacacttttt ggggtgggcc attcttggat 60  
 ggccttgatt ttctcagggc ccacttgga cccatttcta ccaactacaa aacctaagaa 120  
 aactatatta tctacacaaa aggtacactt ctctatatctt gcatagaggg tgtttttcct 180  
 aaggactgaa agaacttgtc tgagatgtcc taagtgatca tctagcctcc tactatacac 240  
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
 cataagcctc ataaagggtgc ttggtgcatt agtgag 336

<210> 7863  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 7863

agcttggttca tgatataaaa agagggtgatt agagtgatgc tagctaggaa acctatgtat 60  
 ttactaatgc ctcatgatta ttgtttatct tttattgcta gttctttgcc tatagggtgcg 120  
 aaagaattat tgaaggagtt tggggatgtc tttcccaaag acaccctca tgggttacct 180  
 cctttgagag ggatagagca ccaaattgat ctcatgccga gagtttccat accaaataga 240  
 ccaacatata gaagtaatcc aaaagaaaca aaagagagcc aaagacaagt ggaaagcttg 300  
 atggaaa 307

<210> 7864

<211> 300  
 <212> DNA  
 <213> Glycine max

<400> 7864

cttaagctag aacggccatg gtgattggga agaagataat ttcatttggt gtatgtaaac 60  
 tatgtttcta atgttctttc caaaaatgat ctttgcttca ataacatgat ttgtaagtct 120  
 tgtgactatt aatctagttc cattgcagag gccttttagat tgatctagat tcctcaacaa 180  
 cattattgga gttccatttt taatttgatt ctatgattac gaacccccaa tatctctaata 240  
 tctttcacaa acttcacaac aactacctct acccagggtg tatcaattgc atcatacatg 300

<210> 7865  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<400> 7865

tttttatatc aaaataagct tgatcgatac ataagcttat ttatgtaact tatttttcat 60  
 aaactacttc aattagttta ttttggtaat tcacttaaag taatttatgg aaattaataa 120  
 gttagttggt actatttttt tcttaacctt actcatatta gtttattaaa ttcaatttta 180  
 ccattttatt taattaaaga cactcatttt acccttttat tcgatttaga aacactcatt 240  
 ctttttgctt tgtaactaaa aaaaccc 267

<210> 7866  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7866

agcttatagt cattatttgn tgtgaaccat aagccanagc tgattattcc cttgagataa 60  
 gcagtgggtg gagtctccat gtatcgactg atgagtctag tagcatatag aatgtttggt 120  
 cttatgcaca tcaaatatca taaactagtc accaaactct tgaaatttgt agcatccacc 180  
 ttttttgctt cgtcgaaatt tgataacttc attttgca ccatccgtgt tccaattggc 240  
 ttccaactat ccattctgaa tttcttgagc atctctttat catagttttg ntgngaaatg 300  
 aaaattccat cttccttctg ctttacctca atgccaagat agtatgac 348

<210> 7867  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7867

agcttgaaat tgaacaacgg aagttctcta gaaacanaaa tggncataac ttatcacacg 60  
 gacgtgcatg tcacgcgcat aaaatatcga gacgctcgga atcgaacatc gggagctctc 120  
 gacaaaagac aacggacaat aactatcaca cggaaccccg attctagcgc atcacgtatc 180  
 gagatactct gaagtgaaaa ccggaagctc tcaagaaact caaacggcca taacctgtca 240  
 cacggaagac ccaatcaggc gcataatata tcaagacgct cgaaattgaa caacga 296

<210> 7868  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 7868

gttctcaatg ctctgttcaa gctctcccat ttcctagagg tttatctagg atctctatca 60  
 gatactatgc tagatggcac accatgtaac ctgacaacct cacttatata caaggtagtc 120  
 aactttttcca aggaaaatct gatactaattg ggaatgaagt gagcagactt agtcaatcta 180  
 tcgacaataa cccatataga atctaaacct ctacgggtcc tacgtagtcc taccacaaaa 240  
 tccatggaaa tactgtccca cttccactgg ggtatctcta agggttgtaa ct 292

<210> 7869  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7869

agcttgcatg ttaaagcata atttccccac tctatangct gataatctaa ccaacattcc 60  
 ctactacct tctgaaattg cttgttcatt agccatccat cataaacctt aaaagggtta 120  
 gggccccaat cactgcattt agaatgcatg ataatacgac agtgatcaga ataattcctc 180  
 tcaagggtta attgggagct atcaggccat ttggacaacc atccatcaga gacacacact 240

ctgtccagtt tgcttttgca ggaaccatta cgcctaaccc aagtaaagg tttaccaca 300  
caaggaatat catcaacctc cattgcagca agccaatcat tgaaa 345

<210> 7870  
<211> 290  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7870

ctcctgttct agctntaccc gattttactc aaccttttga agctgaatgc gacgctagtg 60  
gagttggcat tggggctggt ttgatacaaa acaaaaggcc tatagcttat ttctcggaga 120  
aattgggagg agccagattg aactatcgca cctatgacaa agagttctat gccattgtga 180  
gagctcttga tcattggaat cattatttgc gttctaata ctttatatcg cattcatatc 240  
atgagtcatt gaaatatatc aatgggcctc acaagttgag tccaaggcct 290

<210> 7871  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 7871

agctttgaac aaattcaaat gattataact ttttattcgc aggtccgatt gagtcccgta 60  
atatatcgag acgctcggaa tggaataccg aagctctgag caaattcaaa cgacaataac 120  
tttggaactcg gatgtctgat tgagtcccgat aatatatcga gacgctcgaa atggaatacc 180  
gaagctctca gcagattcaa acgacaataa ctttttactg ggatgtttga tcgagcgtcg 240  
taatatatcg agacgtcca aattgaatac cgaagctttt agcaaattca aacgacaaca 300  
actttttatt cggaatgtctg a 321

<210> 7872  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7872

tgggatgatt ctcatcttca tcttagtagt aggcgtttgc atngnatgga ctcatcgttg 60



gcattataact ntcttcacgt gctggccaat ccagagctga ttagtataaa atttcctgtt 120  
tgetgcgcac agaaccatga attggatggt gaatgtcgcc ggggactaag tcatgtcaag 180  
agtgtaaactt tgtgatgctc tgcacccgctc ttatgataaa attgagggtta tctctgaaat 240  
aaagtgcctc aaacgactta ttttccattc attggatcta atttgagtcc caactacatt 300  
agagatctct gtaataaaaac 320

<210> 7873  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 7873

caaaacgcac tagagcgtgt tcttggatat ctaaatacaa tcccatcata cggacatcga 60  
gaagttctga tcttataatt cgctctcagt acatgtgatc ctggtgatct catggaaacc 120  
atccagaaat gcaaaaagag taaaataagg tgctcagtc tgggtcttgc agctgaaatg 180  
tttgtgtgca aacatctctg cgaggaaact ggagggactt attctgttgc actacatgag 240  
gttagcttgt tgattttgat gatccct 268

<210> 7874  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7874

tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggggtgtagc aagcaaattgc 60  
tcaccttccc cttaggctgg accaaacttt aattgggttg ggcttctccc aattcaatta 120  
aatattatctc ccaacacaca tcaaataagg cacttaattg atgtgaaatt acaaaaactac 180  
ccctaattcca naaactantc taggggacct ataatacaag agctaaaaaa tcttacatta 240  
ctagggtacc ctccctacac tatggagccc taaatacaag tccccaaaaa aatgaaatcc 300  
taatctaata tgtaccaaga taagtggctc catacttagc ccatggaccc aatcttcttg 360  
gag 363

<210> 7875

<211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7875

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 aagccttggga ggaaagaggt atgcctatgt tgttgtggat gattttctcca gatttacctg 120  
 cgtcaacttt atcagagaga aatcacacac ctttgaagta ttcaaagagt tgagtctaatt 180  
 acttcaaaca caaaaacact gtntcatcnn nanaattnnn antcaccatt gccnanactt 240  
 tnaaaatagc cagtttactg aattctgcgc gtctgaaggc atcacctatg agttctctgc 300  
 agcccttaca ccacaacaa 319

<210> 7876  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 7876

agcttgcttc tcttgaatat cttattcatt ttgggaaaaa atggacaaat taggtttaat 60  
 tagtagggca ctaactgaaa ttaaattgaa tttgaatttg ggaatgtaag caacattatg 120  
 caagactaag atgttggtta agcaaaactga accaatggca ataatgggta taatgtcact 180  
 attaggcaga gttacatttt tatcaaaaac aagctggtag gatctaaaat gatgaagaga 240  
 gcaagtaata tgaatgcttg caccaaaatc taaaagccaa caatcatgaa gaaaattgga 300  
 agtagaaata agcatactac ttgaggaatg acaacattgg tagcatgact ttc 353

<210> 7877  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 7877

agcttggttat tcgagtattc tttcccgaga acgggggcgt tgacgacgcc agttgaaatg 60  
 ttgacactgt tacctaattg attcacgttt agtggagcc ttgcagggtc tttccagcc 120  
 actgtctgca cagggttgct taaagaatca aagtttgagc tcgacacaaa ctccgggcaat 180  
 aagtgggaact gcacaagttc gattttctgg ctttcgttta aggagttgag gaagccagct 240

ttgaggttgg aaaaggcaaa atcatctggt gcaaggatgg ttatgccacc actcttggct 300  
gttatgagct gtgagatgat gttgctcatg atttctg 337

<210> 7878  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 7878

aagatttttg ttctaagatc cttacaacta acgaattcag taataacttc cttagaaagg 60  
actttctctc ggaccaaagc acaatcaatt tcaacatgcc cagctccctc atggaatata 120  
ggatcagaac ctatatatag gactgcctga ttatcacaac atagcttcat tgggtgagta 180  
tttccaaaac ttcaactctt gaagttgtca atccaaatga gaccacctgt gactacaacc 240  
ataactctat attcaccctt ctgcactaaa ccttgcaaca acatt 285

<210> 7879  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 7879

tagctctgaa gactcaagaa atattaaaac tccatttgaa tctatgcaag aaccactgg 60  
tgctcaagtc ataaagtcaa gtctgagact tagtggaac tgtactgaac tattgaaaga 120  
tggatatatt attgctctgt atgcaagaga ctgttctgca cttcatgtct caaggcaaag 180  
ggttaaaggt ggaggttggg tcatggattc catgtcaaat gtgtcaaaaa gagaccctgc 240  
tgcacagttc ctcatcatct tcagaagcaa ggttcgtctc aaaggaactt tgcattatcc 300  
aaggcactta atattattat atgccagcat gtgcttcaaa atagtagttt agaatggtgt 360  
aacatgtatt tttta 374

<210> 7880  
<211> 254  
<212> DNA  
<213> Glycine max

<400> 7880

agcttttcca ccaacacttg tctgaaattc ccatcatcag gaatccaagt tctccacatg 60

gaatcattaa agggggtaac tttaacaccc ccaacagtga ccctgtgaac aacttcaaga 120  
gctgttggt tcaaaccctc aaatttctct aatttcgacg aactcaaata ctgtgctgtg 180  
tcagggacaa ggtccttggg cgcggaaata acctcaatgg cgttgacgaa cgccaatttg 240  
gagcctttgt tggg 254

<210> 7881  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7881

gcttttagatg cctttaagt tttttatgcc gaagtttata aacaatgagg agagcaaatt 60  
aagatcgtga gattcgatag aggtggagag tactatggta gatacacaga gaatggacaa 120  
acaccagtt tatttatgaa gtttcttcga aaacatggaa ttgttgccca gtacattatg 180  
tctggttctc ttgatcagaa tgggtgtggca naaagaagaa atcaaacttt aatggacatg 240  
gtaaggagta tgaagagtaa tagaaaactt cctcaattct tgtggattga agtactaaag 300  
acaattgtgt atatattaaa tngagttcca acaaagggtg tctcaaaaac accttttgag 360  
ttattcaaag gttgaa 376

<210> 7882  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 7882

agcttggaac aaatattttg aattctttgt ccccttagag attttgtaaa gatgtttgct 60  
agttgatcat tagaactaac gaattcagta ataacttcct tagaaaggac tttctctcgg 120  
acaaaatgac aatcaatttc aatatgttta gttctctcat ggaatattgg attagaagct 180  
atatatagga ctgtctgatt atcacacat agtttcattt gttgagtatt tccaaacttc 240  
aactcttgaa gttgtttaat ccaaagaga tcacatgtga ctacaacat aactctatat 300  
tcagcctctg cactagacct tgcaacaaca ttgtgcttct tactctt 347

<210> 7883

<211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7883

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agatcggatt caggcgcata atatattgag acgctcgtga ttgcacaacg gaagctctcg 120
agaaattcaa atggtcataa cttttcaaac ggcagtcgga ttaacgtgca taatatatcg 180
agaagattga aattgaacaa cggaagctgt tgagaaattt aaatggtcac aacttatcac 240
acagaagtcc gattcacgcg cataatatat tgagactctc gaaattgaac aacggaagct 300
ctcgagaaat tctaaaggtc ataactt 327
```

<210> 7884  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7884

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agcttgaagg actcttgctg acttctgata tggnccttat aactcagggtt agacttcatt 60
tattccatt gttgagtgat ntaatttga aatgggtggc gtcttatgtc ttgttgctga 120
tttttgtatt tttttctctt tatgtttcgg agtactggac atcttttgcg agctcttttt 180
gagattgtct tgaaatatgg atgggcacaa ttggctaata aggctttgaa cttatgcaaa 240
atgggtgacca agaggatgta aagtgtcta 269
```

<210> 7885  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7885

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tgcttatga ctctctgca tccctttgtc gttttcttcc ggcgaggggtg aagcttaagg 60
agaaccaat ctctatctg gtagttcact tcgcgatgtt tcccatcaac ttggcttttc 120
atagcagctt aagccttgag aagcttatct cgaatagctt ggaaaggggg atccctatca 180
gtcaacatct cttcaatggc ctcaatgttc gaagaccctn nnncatattc tggaaagtta 240
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aaggggtttt ggcaaaaggc gacttcataa ggagtggctc cagttcccggt gttccatgaa 300  
 nnattgtggg accattcgac ccacgggagg agcttcccc acaagcctgg cctgcatgg 360  
 acgaaagctt gcatatattg ctcaatt 387

<210> 7886  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 7886

aaatagatgc attggttaac ttgtgttatc ccagcttttc ttgaatcata aatctgtacc 60  
 tgtcgcaaga gtctgtggtt tatgctctc tgttgaccac catacagacc tttgcccttc 120  
 catgcagcaa cctggagcaa ttgagcaagc tggagcaatt gagcaacctg aagcttatgc 180  
 tgcaaacatt tacaatagac ctctcaacc tcagcaacaa aatcaaccac aacagaacaa 240  
 ttatgacctc tccagcaaca gatacaacc tggatggagg aatcaccta acctcagatg 300  
 gtctagccct caacaacaac aacaaaaaca acctgctcct tcttccaaa atgctgctgg 360  
 cccaagcaga ccatatatt 379

<210> 7887  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7887

agcttgaagg aaaannggat gctttgnta tttnggaac ccagctggcc ttgaaccaga 60  
 aatctgtacc tgtcgcaagg gtttgtggtt tgtgctctc tgctgaccac catacagacc 120  
 tttgcccttc catgcagcaa cctggagcaa ttgagcaacc cgaagcttat gctgcaaaca 180  
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acaacaaaac aattatgacc 240  
 tctccagcaa cagatacaac cctggatgga ggaatcacct taatctcaga tggcttagcc 300  
 ctgagcaaca acaacatcag cctgctcctt ccttccaaaa tgctgctggc ccaagc 356

<210> 7888  
 <211> 324  
 <212> DNA

<213> Glycine max

<400> 7888

atgaatgaac ggagaggaag agaagagcac gaaattttat gctctaaaag agctctgaaa 60  
tctgaagttt aatattcaaa tgatcaaagt tcaaaaaatg cacacacatg acctctattt 120  
atagcctaag tgtcacagaa aattggaagg aaatttaatt tcacttgaat ttgaaattga 180  
atttgtggag ccaaaatttc actaattatg atcaatgaat tttagttatg gttcagccca 240  
ctaattcaag atcaattcta agatttccac taagtgtgct taggtgtcat gaggcattga 300  
aagcatgaag gacatgcaca aagt 324

<210> 7889

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7889

agcttgggag ggctttcctc cctatttgag acaaaccnag cgagcattgg ccactggaaa 60  
ccggatagga tcccaagatc aataatatga acgggttctg cctttgccgc tgctttgata 120  
atcattgtat ttgcaaagaa aagtataaac ttcttgaaag ggctggagga agagaaaacc 180  
tgctatgcct tgagataatt agcaacagtg acgctcctag ag 222

<210> 7890

<211> 240

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7890

agcttccgga gtctttttcg atcttcttga cacngacgc gcctgaatat gacctcgttg 60  
tgaaaagttc tgaccatttg aatttctcag agctcctgtt gttcacatac cagcgcgtct 120  
atatgtgaag cacctgaata gcacatccga gtgaaaagtt atgaccattt caatttctcg 180  
agaattttcg tcgttcaata tcgagcatct ctatatataa agagcctgac ctggacctcc 240

<210> 7891

<211> 347

<212> DNA

<213> Glycine max

<400> 7891

ttatcaaaga tttgataatc ttttaagatga tttttactca gacttggatt ttgctggttg 60  
tggtgactct cgcaggttga catctggata catcttcata atgactaatg gagcaatatc 120  
ttggagaagt gcaaaacaat cattagttgc tacttctatc atggaggcta agtttatttc 180  
attatttgaa acaacatcac aagggtatttg gttaaaaagt ttcataagtg gtctaccagt 240  
gattgattcc attcctagac tgtaaagat atattttgat aattcagttg ctcttttttt 300  
ggctaaaaac aataaaagtg gaagttgaat caagcacatt gacatta 347

<210> 7892

<211> 343

<212> DNA

<213> Glycine max

<400> 7892

agcttctcga tatattatgc acttgaatcg gacctccgag tgacaagtta tggccatttg 60  
aatttttcga gagcttccgc tgctcaattt cgagcgtctc gatatattat actcctgaat 120  
cggacctcgc agtgaaaagt taagaccatt tgaatttctc gagagcttcc gttgttcaat 180  
tttgagcgtc tcgatataatt atgcgcctga gtcggacctc cgagtggcaa gttatgaaca 240  
tttgaatttc tcgagagctt ccgttgctca atttcgaccg tttcgatata ttataactct 300  
gaatcggacc tccgagtga aagttatgac catttgaatt tct 343

<210> 7893

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7893

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atatattaag aaggggggggt tgaattaaga tatcccaaac tatttcccca attaaaaaat 120  
tatttcactt tcttttcaag ttatagattc ccttaacaat gaacttctta aatattaatt 180  
caaatcaaac aatttgaata tgaatgtaaa gcgataataa acaaaggaga ttaagggaag 240  
agaaagtgc aactcagatt tatactgggtt cgccacacc cttgtgccta cgtccagtcc 300



ccaagcaacc cgcttgagag ttccactatc ttgtaaattc cttttacaag ttcta 355

<210> 7894  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 7894

aaggataacc tattgctcat agatgagaga aatthttgtgg tcatcaacta ctggcttggc 60  
 ttgaatgagt ttgctgattt gagccaccga gagttcaata acaagtatct ggggctgaaa 120  
 gtggactact ctacaaggag agagtcccct gaagaattca cttacaaagc atgtgagttg 180  
 cctaagtcag tggattggac aaagaaatgc gctgcaaccc cattcaacaa ccaacgttca 240  
 tgtggttaagc atatthtttat ttattaccta ataatactga attaatacaa catgatctca 300  
 ttcttattat aacatgtatt agctagtatt atttcaatat tgaacgaacc acacatacta 360  
 caaa 364

<210> 7895  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7895

tgtaattcaa aagtgctaga cttggaaatt gttttgatng ttagatccgt gcatgactga 60  
 tgaatgaaat tgtgtggctt tagcagcaac atcacgttca tacagatgag gacggttctg 120  
 aagggtggtg ataactcggg ggagaaaaaa gtaacctgca ttcaagcatt gaaaggggaag 180  
 aaagtgacac aatcatcccc tcacttaagg aggacatgc aaaaggggag ggtgtgatgg 240  
 aaatgaggtc aagttttgatg acaagcaagg ccaaccatt gggactagag tgthttgggcc 300  
 agtgcctcat gaactcangc cnaacaacca tgtcaagatt cttactthttg ccggccatat 360  
 tgcttaatt 369

<210> 7896  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 7896

aatactcaag cttctaaact ttatacaaga atgaagctct gatttttctt gttagacaag 60  
tggcctcaga tatcttaaaa aggggggggtt gaattaagat attccaaact acttccccaa 120  
tttaaaaatt tatttcactt tcttttcaag ttatagattc ccttaacaat gaacttctta 180  
aatattaatt taaataaaac acattgaata tgaatgtaaa gcaataataa acaaaggaga 240  
ttaagggaag agaaagtgca aactcagatt tatactgggtt cggccacacc cttgtgccta 300  
cgtccaagtc ccaagcaacc cgcttgagag ttccactatc ttgtaaattc ttttacaagt 360  
tctaaacaca caagacaat ccttcctttt 390

<210> 7897

<211> 343

<212> DNA

<213> Glycine max

<400> 7897

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ggacatgaca ttcagaggat gtggcggaac attgacattg tctgcgtacg cttgacattt 120  
atggcatttc cttacatggg tgcagcaatc gctttccata gtgagccagt aataacctgc 180  
tctaaggatc ttcttgcca tagcatgcc attggcatgt gtcccaaag aacccccatg 240  
gacttcctca atcatgtaat tcgcctcttt ggcattctacg cagcgtagga gggatcatgt 300  
tttgtttgta caggacggta cactcacaa agaaaccagt agc 343

<210> 7898

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7898

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tcagttcctc atcgcccttg ggaggatccg tcaatggatt tcatcaccgg cttacctcta 120  
ttccgaagta acaccacaat tctgggtggtc gtcgatcgct tctccaaagg catccatttg 180  
ggcattttgc caacgnetna ctctccctc actgctgcaa cactattcat tgaaatcctt 240  
ggaaagatac accaaatgcc tcaaagcttg gtgtccgaca gggatccact tttcctgaag 300

atgagcttcc cttatcaccc tcacagtgat ggccca

336

<210> 7899  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 7899

tttaagaagg caatttccaa tcatgctatc ttatgcaatg acaattaaca agtctcaagg 60  
ccaatcactt tctatgggtg gactttatct gccaaaacca gtctttcgcc atggacaatt 120  
atacgttgca ttatcaaggg tcaattcaag gcaaggatta aaagttctta ttcataataa 180  
agaccaaaaa aatatgactt atactaccaa tgtagtcttc aaagagggtt tcaaaaatct 240  
tacaaggtaa ctctaaatct tgaacaaca aattgtacta tttattggca acaattccta 300  
actgttatct tactcatata cattctaaca tacagcccaa gatgatatca tatattacaa 360  
tcttaaaatt tacattgtca tgtatgtaac cttaattacc ac 402

<210> 7900  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 7900

agctatgctg caaacattta taatataccc cctcagcagc aaaaccaaca acaacagaat 60  
aattatgacg tttcaagcaa cagatacaat ccagggttga ggaatcatcc aaatctgaga 120  
tggaagagtc ctctacaaca acaacagcct atccctacct tccagaatgt tgctgggtcca 180  
agcaagccat atgttcctcc aatgcagcaa caacaacaac aacaacaaag acaacaagca 240  
actgaggcac ctctcaacc ttccttagaa gagttagtga ggcaaatgac aatccaaaat 300  
atgcaatttc agcaagagac aagagccttc attcagagtc tgacaaatc 349

<210> 7901  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 7901

taccaccata ggaggccatg gataagagcc tggatgaaga atgagatgaa tgaacggaga 60

ggaagagaag agcacgaaat tttatgctct aaaagagctc tgaaatctga agtttaatat 120  
tcaaagatgc aaagttcaaa aaatgcacac acatgacctc tatttatagc ctaagtgtca 180  
cagaaaattg gaaggaaatt taatttcact tgaatttgaa attgaatttg tggagccaaa 240  
atttcactaa ttatgatcaa tgaattttag ttatggttca gccactaat ccaagatcaa 300  
ttctaagatt tccactaagt gtgcttaggt gtcattgaggc atgtaaagca tgaaggacat 360  
gcacaaagtg tgactatatg atgtggcaat g 391

<210> 7902  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 7902

gtgcctgtat attgatgcgc ctgaatcaga catacgagtg aaaagctatg accattagaa 60  
ttatttgaga gcttcctatg attaatttcg agcgtgccga tataatatac acctgaatca 120  
aacctcagtg gaagaacgta tgaccatttg aatttccttc gagcttccga cgttcattgt 180  
ttagcgagct tatttgtgag gcacacgaat cagacctccg cgtgaaaaga aaggaccatt 240  
tgaatttctc gagagc 256

<210> 7903  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 7903

gcttctaaac tttatacatt aatgatgctc tgataccact tgttgacaa gtggcctcag 60  
atatcttaag aaggggggggt tgaattaaga tattaataact tatttcccca attaaaattc 120  
tatttcactt tctattcaag ttataaattc ccttaataat gaatttctta aatattgatt 180  
caaataaaac aatttgaata tgaatataaa acaataataa ataaatgagt ttaagagaag 240  
agaaaatgca aactcagatt tatactgggt cggccacacc cttgtgccta tgtccagtcc 300  
tcaagcaacc cgcttgagag ttccactatc ttgtaaattc cttttacaag ttctaaacac 360  
aca 363

<210> 7904  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7904

gcttcaagaa aaagatgggc tcatctaact ccttatttcc agaaggggaat tctatcaata 60  
 gacctccaat ctttaatgga gaggggttacc actactggaa aaccggaatg caaatTTTTA 120  
 tcgaggcaat agatctaaat atctgggaag ccatagaaat agggccttat ataccacca 180  
 cagtagaaaag agtttcaata gatggtagtt catcaagtga aagcataacc atagaaaaac 240  
 ctagagatag atgggtctgaa gaagatagaa aacgagtaca atacaaccta aaagccaaaa 300  
 acataataac atctgccta ngaatggatg aatatgtcaa agttcaaatt gcaagaatgc 360  
 ttaggaaatg tgggacact 379

<210> 7905  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
  
 <400> 7905

agcttgaaca aatcttctac agttgtgagt gataacatgc agtcttcttg aacccttacc 60  
 gcccactttg tcgtcatgcc gagactcgag aagcccatca ggttttagcct tttcaatgta 120  
 ctctgaacaa aatccaatgg cttcttctgc aatgtacctt tcaacaatag atgcttcggg 180  
 acgatgtaga ttcttcgtat acccttttaa gatcttcatg tatcgctcga ccgggtacat 240  
 ccacgcgaaa taaacaggac cacaacattt gatttctctg accagatgaa caattaagtg 300  
 aaccatgatg tcaaaggaag caggaggaaa atacatctcc aactaacaca gtataattgc 360  
 aggctcgttt tct 373

<210> 7906  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 7906

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cgaacaaagg tggagtatgg aggattgcct tgagggtccg cacttangca atcatgaaac 120  
 taagctccaa actcgaaagt ggaggacaca tgaacaaccc taagcaataa tattcatgtg 180  
 gctccgaaaa aggatgagaa tggaggattg ccttgagggt cctctcttan gcaatcatgg 240  
 aacacagctc caaactcgaa aacggaggac acatgaatga aaccgcaatt cattcacgtg 300  
 gctccggaac aagatgagaa tggaggattg ccttgagggt cctctcttan gcaatcatgg 360  
 aacacagctc caatcatgga acac 384

<210> 7907  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7907

tctcgagana ttcgaatggg tataactttt cccacatatg tccgattcgg ggacataact 60  
 catctagacg ctcgaaattg aacaacgcaa gctctcgaga aattcgaatg gtcataacat 120  
 ttgcacaaaa tgtccaattc tgggacataa tatatcaaga cgctcgaaat tgaatagcgg 180  
 aagctctcgg gaaattcaaa tgggcataac ttttcacatg gatgtccgat ttgggaaaat 240  
 aatatatcga gatgctccaa attgaacaac gaaagctatc gagaaattcg aatgggtccga 300  
 acttttcgca cggatgtccg attccggggac ataactcatc ta 342

<210> 7908  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <400> 7908

taataaatct atatatgggt taaaacaagc ctcccgttag tggaacctta agtttcatga 60  
 gataattttt tcatttggtt ttaatgaaaa tcccatgaat caatggatat accacaaggt 120  
 caataggagt aaaatatgtt ttcttgtttt atatgtagat gatattttac ttgtagccaa 180  
 tgatcagggt ttgctatatg aggtgaaaca atttctctct acaaaatttg acatgaagga 240  
 tatggatgat gcattttatg tcattggcat taagattcat aaaatgatag acctcgaggt 300  
 attttaggtc tatcacaaga aacctatatt aacaaaattt tagagagatt tcggatgaaa 360

tattattcac caagtgttgc tcccattgtg aagggtgata ggtttaattt 410

<210> 7909  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 7909

gcttgggtccc caacgctttg ttcattgtct cccaaaatct agaggtaaac ctaggatctc 60  
tatcagacac tatgctagaa ggcataccat gtaatctaac aatctcactg atatacaggg 120  
aggtcaactt ttccaaggaa aatttgatat taatgggaat aaagtgagca gacttgggtca 180  
acctgtcaac aataaccag atagaatcaa aacctttggg ggttctaggt agtcctatga 240  
caaaatccat ggaaatactg tcccatttcc actagggtat ctccaagggt tgtaacttcc 300  
cgaaagatct ttggtgttct atcttagcct tctgacagac taaacatgca tacacaaact 360  
cact 364

<210> 7910  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 7910

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caacagtcac atctttttat gtggttctta aatggctatc aaaggcctat atatatgtga 120  
ctggagacac gaatttgcta agagtttttc agaacaaaaa agtcttatcc tcttataaag 180  
caaaattggt ttatcctctt acaaattcct tgtccaaatt acttgtgatt caataaggaa 240  
tttttgagtg ctcaaattgt tcaatctatc tctttcaaga gagatttctt cttttcttct 300  
tcttcattct gaaaagggat taagagaccg agggctctct gttgtgaaag aattctaaac 360  
a 361

<210> 7911  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 7911

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gaagcagtac ttcttggacc tgaaatgcta caacagatta actaacaagt gaagttgatt 120  
cgagggaaga taaaagcatc tcatgatagg cagaagagct attatgattg aaggaggaag 180  
ccactatatt ttcaggaagg agaacatgtg tttttgaagg tttctcccggt aaccggagtt 240  
ggaagagctc tcaaggctag gaagttgaca cccaagtatc taggtccgta tcagattttg 300  
aagaagattg ggcctatagc ttatcatatc gccttacctc ccgattttatc gaatttgcatt 360  
cccgtgtttc atgtctt 377

<210> 7912  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 7912

tgacatgcta ttgaacaagc agttatatac tctgcttcac aagtagagag tgcaacaaca 60  
tcctgttttct tagagcacca ggagatggga gcacctccaa acaataaaac atgccccatt 120  
atgctttttc tgtcaagaac atctccacca cagtctgagt ctgaataagc cacaagttgt 180  
ggctcaacct tctcttttcta atgtggaaat agaacaccaa agtctagtgt gctctcaagt 240  
atctcagtat ccttttagct accatcatat gtgaatgtct tggatcactc ataaacctac 300  
tgataactcc cacattgaaa gtgatttctg gtctggaatg acaaataaat ctgagactcc 360  
caacaa 366

<210> 7913  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 7913

ttgagagaga atcgggtatt tgaccaacca acttgttttg atgcagcata agttcagtta 60  
gttcttttaa ttcagagagc ttatcaggta ttggaccttc taatacattt gcatatagag 120  
agagcccctg aaggtgagaa agtttggaca gttctggagg aatttgacct gaaaacctat 180  
tttctgaaag ggataaagtg acgagttgat tcaagtttcc aatctctggt ggaattggtc 240  
ctatgaaaga atttgcattc agctgcaggc gtatgagttt agacaggttc tggataacctg 300



atztatcaa tccactgaag ttgttcattg ccaaacttag agtgctaaga tttgagcagt 360  
tatagaggtc atctgggatt tcccagtc tttgttgga tgt 403

<210> 7914  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 7914

tgtgcatcca ataccatgat gaggatgtcc cttatgttct taaaactgga ctgatccatt 60  
tgcttccaaa gtttcatggc tttgcagggt aagaccaca caagcatctg aaagaattcc 120  
atattgtcta ctccaccatg aaaccacaag atgtccagga ggatcacata tttctgaagg 180  
tctttcctca ttcttttagag ggagtggcaa aggactggct atattacctt gctccaagggt 240  
ccatcacgag ctgggatgac cttagagag tattcttaga aaatattttc cctgcttcca 300  
ggaccacgac catcagaaag gatatttcag gtattagaca actcagtgga gagagcctat 360  
atgaatactg ggagag 376

<210> 7915  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 7915

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tgctagtgga gttggcattg gggctgtttt gatacaaac aaaaggccta tagcttattt 120  
ctcggagaaa ttgggaggag ccagattgaa ctattgcacc tatgacaaaag agttctatgc 180  
cattgtgaga gctcttgatc attggaatca ttatttgcgt tctaactact ttatattgca 240  
ttcagatcat gagtcattga agtatatcaa tgggcagcag aagttgagtc caaggcatgc 300  
taaattgggtt gaatttcttc aatcttttaa tttctcttca taatacaagg atggtaagag 360  
taatgtggtg gctgatgcac ttt 383

<210> 7916  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 7916

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tatatcgaga cgctcggaat ggaataccga agctctgagc aaattcaaac gacaataact 120  
ttttactcgg atgtctgatt gagtcccgtg atatatcgag acgctcgaaa tggaataccg 180  
aagctctaag caaattcaaa cgacaataac tttttactgg gatgtctgat tgagtgccgt 240  
aatatatcga gacgctcgaa attgaatacc gaagctctta acaaattcaa acgacaataa 300  
ctttttactc ggatgtctga ttgagtcccg taatgtatcg gaaccctcga aatgaatgtt 360  
gagc 364

<210> 7917

<211> 401

<212> DNA

<213> Glycine max

<400> 7917

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aaacctttcc attcaccaaa catctagaat gaaaaatgtt ttcattttgt gtatcatctc 120  
tatctttgca caagcttccc atgagtctcc ttaccatcaa aagatatccc tcttccggtg 180  
gaagaaaacc atcatcctcc gttcactag aggaactatg agaactctta gatcactatc 240  
cacctctcca ttcttcaaca caatcatgtt ccttttgta gaatattggg atgaaatatg 300  
attatttccc aaacacttaa agcatttaat ggaactagtt ttattggaag ggggttgagt 360  
agcagaagta ggattacctc ttgaagactt ccttttaaga t 401

<210> 7918

<211> 384

<212> DNA

<213> Glycine max

<400> 7918

agcttatgtg caaatattta caatatacct cctcaacctc agcagcaaaa tcaaccacag 60  
cagagcaatt atgacctctc cagcaacaga tacaatcctg gatggaggaa tcacctaac 120  
ctcagatggt ccagccctca gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct 180  
gttggcccaa gcagaccata cattctcca ccaatccaac aacagcaaca accccagaaa 240

caaccaacag ttgaggcccc tccacaacct tccctcgaag aacttgtgag gcaaatact 300  
atgcagaaca tgtagtttca acaagagacc agagcctcca ttcagagctt aaccaatcag 360  
atgggacaat tggtaccca attg 384

<210> 7919  
<211> 387  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7919

ttagttgttg gtgctgatgt tagtatgatt ggaccgtttg gtgtgggggt ctactctaca 60  
tatcttattg tcgaaaaggc cattgttacc accaagcaca atgatgatga gcaatacatt 120  
tgggagtccc aagctagagg ttcattgatt ttacctgct tccatgtgct actcgtgcc 180  
accatattct ctatctccct ctacttttcc ttacctctca catgattcat tataatgtta 240  
tgaatcttgt tatctcaatt ggattccttg attttcattt taatagtcga gaactaactc 300  
tgttgtattt gtatagatgg atattntgag tatttgtgct ttataataac tattctttct 360  
tcattacaca actctagcat atcctgg 387

<210> 7920  
<211> 363  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7920

tcaaacttac aacaaaggag ttgagcaggt aaaatagatt cgtcttcaaa ctcttagagg 60  
tgactttgag tgtttgttta tggaggagtc cgagtcaatt tatgattatt tttctcgagt 120  
attggccgta gtcaatcaac ttaaaagaaa tggatgaagat gttgatgagg tgaagggtat 180  
ggaaaaaata cttcgaactt taaatccaag tttgacttc attggtacca acattgaaga 240  
aaacaaggat ttaaagacca tgactattga gcaactcatg gggttccttac aagcacacga 300  
agaanaacaa aagagaaaaa ttaaacaaaa ggaggctacg gagcaactac tacaactcaa 360  
cgt 363

<210> 7921

<211> 309  
 <212> DNA  
 <213> Glycine max

<400> 7921

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 taaaaagtta ttgacatttg aatttgctca tagcattcgt tgtcaattac gagcgtctag 120  
 atatattaaa ggattcattc ggacatccga gtaaaaagtt attatctttt tattttgctc 180  
 agagcttctg ttttcaattt cgagcatctc gatataattac aggactcaat cggatatccg 240  
 agtcaaaaagt tattgtcgtt tggatatgct acgagctttc cgtttcaatt acgagcgtct 300  
 aatatgcta 309

<210> 7922  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 7922

agctgctaac ccatggaagc tcctatatat ctcccacact ttttgggggtg ggccattctt 60  
 ggatggcctt gattttctca ggggccactt ggaccccatt tctaccaact acaaaccta 120  
 agaaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggggtgtttt 180  
 tcctaaggac tgaaagaact tgtctgagat gtccctaagt atcatctagg ctctactat 240  
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
 gatgcataag cctcataaag gtgcttggtg catttagtgag cccaaaaggc atcactagcc 360  
 attcatacaa accaaac 377

<210> 7923  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 7923

agctctgggtg ggacatcttg acttgccttc caatctgaca ttcaccacag attctgcctt 60  
 cttctatttt cagattggga atgcctctaa cagcaccttt gtcaatgatt ttcttcatgc 120  
 ctcttaagtg cagatgtcca aatctttgat gccatatatt gacttcatct tctttggaga 180

ctagacatgt ggaggagtaa ctggtttctt gaggtgtcca taggtaacag ttgtcctttg 240  
atctgctgcc cttcattaag acttcactct tctcatttgg caccaagcat tctgactttg 300  
tgaagttttac attgagtcct tcatcacaca actgactgat gctgatcaag ttcgcagtca 360  
gtcccttttac 370

<210> 7924  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 7924

tcatgagaga gtcaaagatc aaattgagag gaaaagtaat tgcttgctaa acaagccaac 60  
aaagggagaa agaaggttgt cttcgaaccc ggagattggg tttgggtgca catgagaaaa 120  
caaaggtttc cggaacaaag gaaatcaaag ctttatccaa ggggagacgg accatttcaa 180  
gtgcttgaaa gaatcaatga caatgcttac aaagttgagc tgcccgggtga gtataatgtt 240  
agttccacct tcaatgtctc tgatttatct ctttttgatg cagatggaga atccgatttg 300  
aggacaaatc cttctcaaga gggagagaat gatgaggaca tgaccaagag caagggcaag 360  
gatecacttg aaggacttgg aggacctatg a 391

<210> 7925  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7925

agcttaaaag attggctaag attttggttaa aacataagca cttagacaat gaaggaaagc 60  
tggagttgct gcacatgatg tccaatgtta tgtcaaagaa taagatcggg ctgcacaatg 120  
cacaaggcaa gataaagtgt caaatgaaga attgaagctg caggattcac gatgtcggat 180  
ataatgtcca ggacatcctg cctgaaaata ctggaattgc taaaagcatt gaagctgcag 240  
gatccacgat gtctgataca atgtccagga catcctgccc gaaaatactg gagctgctaa 300  
aagcattgaa gttgcaggat ccacgatgtc ggatacgatg tccacgacat cttgcccgan 360  
aatactggac ata 373

<210> 7926  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 7926

tatgcgaaat acttggaataa ttaaactctt atctttacaa taatttattt tcacctcaac 60  
 caataatggt tttgttatat tgatgagacc acttataata agtataaata tataattaat 120  
 tatggaaatg agtactatgg ttattaacga aatatgaagt aataggatta catattaaaa 180  
 ttttaattatg tttttgttat attgattatg cattaattat actatttatt aaacataata 240  
 aatattttaag ttttaaagat ttatgaaagt ttacctcttt attattgcat atcatgaata 300  
 tgagatatgt acgcattaaa tgtatgacag agatacatgt taaaaaatct aatatttgat 360  
 agagttatat tatatttatt aatggaataa atatcacatt c 401

<210> 7927  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7927

ntagccaaac tgtaaaactt ggcaataaca ctagaatggc tgttggtgga aaaggatatca 60  
 ttcatatgca agtgaatgga tttacttagg aaattgcagg tgtctattat gttcttgaac 120  
 ttaagaataa tctattgagc atagggcaac ttcaagaaaa aggcttgact attttgattc 180  
 aacatgggaa gtgtagggta tatcaccttg agaaaggatt aattatgcag acatatatga 240  
 gtggaaaatag aatgttttct ttgttggtta ccatgatacc aaaatctttt tcatgtttcc 300  
 aaattgtatc agaaaatgaa tctcatcttt ggcatgtgct gtttggtcac ttaggttaca 360  
 atggattgag gacacttttt gataagaaga tggtaaatgg gctg 404

<210> 7928  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 7928

tgcaagcttg taatctatta cacatatact gttatcgatt accagagcag attttcagaa 60

aatattctca acagtcacat ctttttatgt gggctcttgaa tggctatcaa aggcctatat 120  
 atatgtgact tgagacacga atttgctaag agtttttcag aacaaaaagg tcttattctc 180  
 ttataaagaa aaatcgtttt atcctcttac aaattccttg gccaaattac ttgtgattca 240  
 ataaagaatt atttgagtgc tcaaattggt caatctatct ctttcaagag agaaatcttc 300  
 ttctcttctt cttcattctg aaaagggatt a 331

<210> 7929  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 7929

tctattttca atttcaagcg tctcgatata ttactttact taatcggaca tccgtgttaa 60  
 aagttattgt ggtttacaat tgctatgagc ttctgttttc aatttcaagc atctcgatat 120  
 attacggggt ttatttagac atccgagtta aaagttattg tcggttgaat ttgctcagag 180  
 ctttttagatt caattttcag cgtctcgata tattacggga cttaatcgga catccgaggt 240  
 aatagttatt gtggtttgca attgctatga gcttctgttt tcaatttcga gaatctcgat 300  
 atattacggg attcattcag ccatctgagt aaaaagtaat tggctcgttga atttcctcag 360  
 agcttctatt ttaaattcga gc 382

<210> 7930  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7930

gcttcaacat cagaccactt ccagtttgct ggaactactc cacatggatt tgatggggcc 60  
 tatgcagggt gaaagccttg gaggaagag gtatgcctat gttgttggtg atgatttctc 120  
 cagatttacc tngtcaact ttatcagaga gaaatcagaa accttgaag tattcaaaga 180  
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatca ggagtgacca 240  
 tggcagagaa ttgaaaaca gcagggttcac tgaattctgc acatctgaag gcatcactca 300  
 tgagttctct gcagccatta caccacaaca gaatgggata gttgagagga aaaacangac 360  
 tttgc 365

<210> 7931  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 7931

taagagggtat ggcagtgcta agggatgttt cccttgatag gataaggtag aaagattgtt 60  
 taagaaggag tgctatttta atatcacctt ttcttgcaaa atgattttcc ttcttaacaa 120  
 tcttcttgga ggaatccttt tcttcctttt ccttccccctt ggactttgaa gacaaggcct 180  
 tactatcctt ctttttcttt tgtttttcta gtttttcttc ctcatccctc ttatctttca 240  
 tagttagttg atctttggcc acctgtgaag gtgtttgagg atgcaacaca aatttagtgc 300  
 caagatgggt gagggtaatc tcattagtta ggccattgta aatgatcttc ctatcaaatt 360  
 gccaccgtct tcctaaaaga atatgtccta cc 392

<210> 7932  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 7932

agcttgatc ttttccatt attaataaga cgagttcttt tcctttttct cttgttcata 60  
 ctgatgatg gggctctgct aatgtcctta atatctcatg tgctaaatgg tttttaacct 120  
 tcatagatga ttgtactcga gcaacttatg tcttcttatt aaaataaaaa tctgaagtca 180  
 gctttgtttt tattcacttt gtgtcaatga ttaaaaacca atttgagtc aatattaaga 240  
 gaattagggt tgacaatgcc agggtact ttaattttgt gctaaaatct ttttgtcaaa 300  
 aggaaagaat aatccatgag tctttaagtg ttaacacaca ccaacaaaa t 351

<210> 7933  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 7933

ttggctcaga gcttcaacat ttcaatttcg accgtctcga tatgttaagg gactcaatca 60  
 gacatccgag taaaaagtta tggctccttg tattggctca gagcttcaac attcaatttc 120



gagcgtctcg atatgttacg ggactcaatc agacatccga gaaaaaagtt atcgtcgttt 180  
gagttggctc agagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat 240  
cagacatccg agtaaaaagt tatggtcctt tgtattggct cagagcttca acattcaatt 300  
tcgagcgtct cgatatgtta cgggactcaa tcagacatcc gagaa 345

<210> 7934  
<211> 394  
<212> DNA  
<213> Glycine max  
<400> 7934

agcttcagtg gcttagtgaa gatgaagatg ttaaagtgac tcaacagggt gaggtgtgtc 60  
tcaccattgg gagatataat gacaagggtc tgtgtgatgt ggtcccaatg gaagcgaccc 120  
atgtgctgtt aggaagatcg tggcagtatg ataccaaggc agtgcattgat ggcttcacca 180  
acaacatctc tttcaagcaa gctgacaaga agattgttct caaacgtta tctcctcaag 240  
aggtttgtga ggatcagata aaaatgagag aaaagaaaaa gagtgagaca cttgagagga 300  
aaaagagtga gacacttgag aaggaaaagt gaggaagaaa aaagagtga acactcgaga 360  
gggaaaagag agaaaacaaa aagagtgaaa cact 394

<210> 7935  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7935

cgacaatact tttctcgagg ttcttatatt ccttaatata tcgagacact cccaattgaa 60  
attggaagct cggatcaaatt tcaaacgaca ttaacttttg acttgatgt cggattgagt 120  
cccgtaatat atcgcgacgc tccaaattga aaacagaagc tctaagacaa ttcaaacgac 180  
aataactttt tattcgatg tccgattgag tcccgtaata tatcgagacg ctccaaattg 240  
aaaacggaag ctcttatcaa attcaaacga caataacttt tttctcgat gtccgataga 300  
gtcccgtaat atatcgacgac gtcctcaatt gaaattggaa cctcgtatca aattcaaacg 360  
acaataactt ttaactcgga tgtccgattg agtcccgtaa tatatcgaga cgctccaana 420

tgaaaacgga agctc

435

<210> 7936

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7936

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aatttgggagc gtcgcgatat attacgggac tctattggag atccgagaaa aaagttattg 120

tcgtttgaat ttgatacgag cttncgtttt caatttggag catctcgata tattacggga 180

ctaaatcaga cattcgagtt aaaagttatt acggcctgaa tttgctacga gcattcgttg 240

tcaattttga gcgtctcgat atattatggg actcaatcgg acatccgaga taaaagttaa 300

tgtcgcttta atttgatacg aacttccatt ttacaattgg agcgtctctg aatatta 357

<210> 7937

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7937

caattcttgg tgggtgaagct ccttcnttcn tgtttattcc ctagaggatg gtgcctcccc 60

tctccccctc tcctttgcct tccgctgcat ctccatgggtg aaaaatcacc attgaaggac 120

ctcattgaag ctcanagatc cagcctccat agaagctcca ctagcaagct tccatcaatt 180

atcatcacia catattcaga aaacccaaac cccacaatct gatgtaagct ccattggagc 240

ttgtacgcct aggatcttct tcatcaatgg attcctttgc tccttggaag atgaatggca 300

gcggaatgga gaacgaagag agagaggaga cgccacttca acgagaagat gagtttagaa 360

caagcttacc accataggag gccatggata aaagcttggg ggaagaacga gatgaatgaa 420

cggagacgga gag 433

<210> 7938

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 7938

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gcctccattc cactatctac gtgcgatgag tatttctccc gccacagaca ttattttgca 120  
aatcccaaca gtgaagatgt gcgaaatgaa ttgcaaacca catatcaaaa tttcatgaca 180  
atctaacggt taacgaatct gggatcatag ttttacggag acagtttttg atttttacgg 240  
gaaaaaaagc tacgatacaa aagatatttc tctcaactcc aacatgtttt cataattccc 300  
aatggtgaga atattcagaa atgagttctg aacctggtgc tcaaatttca cgatgatcta 360  
acggtgaatg agtctgagag ggtttttggtg gtatgcggga aaagagatcg tca 413

<210> 7939  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7939

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attgtcgttt gaatttgatc agagcttcaa cattcaattt cgagcatctc gatataattac 120  
gggactcaat cagacatccg agtaaaaagt tattgtcgtt cgaatttgct cagagcttct 180  
acattcaatt tcgagcggtc cgatatatta cgggactcaa tcggacatcc gagtaaaaag 240  
ttattgtcgt ttgaatatgc tcagagcttc ggtattccag ttcgagcgtc tcgatataatt 300  
acgggactca atcagacatc cgagtaacaa gttattgtcg cttgaatttg ctcacagctt 360  
ccgtattcca tctcgagcgt ctcgatatat ta 392

<210> 7940  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7940

agctntgagc aaatncaaac gtatttnatt tttttgtcgc gangncngan cgacccccgc 60  
aatatatcaa gatgctcgaa atggaatacc gaaacctga gcaaatacaa actacaataa 120  
ctttttactc cgatgtctga tagagtcccg taatatatcg agatgctcga aatggaatac 180

cgaagctctg agcaaattca aacaacaata actttttact cggatgtccg attgagtccc 240  
gtaatatatc gaaacgcttg aaattgaatg ctgtagctct gagcaaattc aaacgacatt 300  
aactatttac tcggatggcc gactgagtcc ggcaatatat cgagacgctc gaaatggaat 360  
accgaatctc tga 373

<210> 7941  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7941

agctttngga ggctgtgttc attttttctt gctctgatag cgcnnnggaa agaacagtac 60  
aggtggttcc ttaaaaaggc ggaatgacag tggtacgaaa tgagatgaat gacttgatac 120  
caacactaac tgccactggg tggatgatgt gtatcgacta tcgcacgttg aatgaagcca 180  
cacataatga ccatttcccc ttacctttta tggatcacat gctggaaagg cttgcagggc 240  
acgcatacta ctgcttntgg atggatattc atgatacaac catatcgcgg tataccccac 300  
agatcaggag aagacggcct ttacatgccc ctntcgcgtc tttgcttaca taaagatcgc 360  
attcgggtta tgtatcccac taccttcttc agagggtgat gcta 404

<210> 7942  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 7942

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tcgggcaatc ccttctacag cttgccctgc agcagtgcct tgaccaaccc caggtccaat 120  
agaagcaagc cctacggcca acccagcagc aataacagaa gcagcagaaa taattggatt 180  
catgataatt tcctcgtaac ctaaataata aataaagaaa tagttaatga tataatcaac 240  
caataaatta tgacttaatt tttcaattat caagatttat tcggttttaa gtaattaata 300  
agaattccga attgaaaata ataatagtta ttgaactcta cgaattactt cgagatttat 360  
tttttcgtct ctacctacat acatagcttt tttttgtgaa tatgtagaac ctctggtctt 420

atcctacctt caatttggaa tcattctttg

450

<210> 7943

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7943

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cggccagcaa gactaaccce cataccttat tggctgacaa attctcaagt tggaggttat 120

ggaaaacctg cccctgaaga tcttactgct gattatggac actggaaacg tatagtgtcc 180

aagtcttcat ttaatgggat aagaattaat tggccaata tgccgaatgt catggatatg 240

agatcactct atggaggggtg agtgaaatct gtctgttccc atgttactct gaattatatt 300

aaccggccat tttgacatac ttcactagct ctttcggcta caggttngct gctgtcttga 360

tagattagaa tatttgggtc atgaatg 387

<210> 7944

<211> 327

<212> DNA

<213> Glycine max

<400> 7944

agcttcgaag cgcgggggtg tcttcgttat tggactcadc agcatcatgt tcgtttctgc 60

gcgcatcaac aaagccttgt tcggtgtcta accatctccg gcgaatttca cggcgacgcc 120

cttgccgagg atcccgcggt cgaagttgcy gtacacgtgg acgccggtgt cgttcacat 180

aaaactatta tccagagcgc ctacggttag ggtttggacc ccgccattcg cgggctcttc 240

gaattcctcc attaaatcgt ttctccgccg cgacggcgac ggcgaaggag acggttctcc 300

ggagactgcy ttctcccaca cagaatc 327

<210> 7945

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7945

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gcctatgttg ttgtggatga tttctccaga tttacctgng taaactttat cagagagaaa 120  
tcagaaacct ttgaagtatt caaagagttg agtctaagac ttcaaagaga gaaagactgt 180  
gtcatcaaga gaatcaggag tgaccatggc agagaatttg aaaacagcag gttcactgaa 240  
ttctgcacat ctgaaggcat cactcatgag ttctctgcag ccattacacc acaacagaat 300  
gggatagttg agaggaaaaa caggaccttg caagaggctg ctcggtcat gttcatgcc 360  
aaagaacttc cctataatct ctgggctgaa gccatgaaca cagcatgcta catccacaac 420  
agagtcac 428

<210> 7946  
<211> 232  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7946

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tttcgagctc ctcgatatct gacgtgcctg aatccgacat tcgagtgaac agtcgggaca 120  
acttccattt ctccagagct tccgctgttc aattctgagc gtctcgatat gtgatgctcc 180  
tgaatcggac cctcctgtga taacttatga ccattingaat tgctctagat ct 232

<210> 7947  
<211> 419  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7947

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ggctacttgg tccatttggg ctccctgttc cttgatagaa atgaactctc tgggtccatt 120  
cctttcatca ttggaaatgt gtcaaagctt agtgaattat ttatatactc taatgaactc 180  
actggatcaa ttccctccac tattggaaat ttatcaaagc gcagggcatt actatttttt 240  
ggaaatcaac ttggtggcaa gattccaata gaaatgaaca tgcttactgc tctggaaaat 300  
ttgcagctag ctgacaataa ttntataggg catttacctc aaaacatctg cattggtgga 360

acgttgaaat atntttccgc tgaaaataac aacttcatag gcccaattcc agtgagttg 419

<210> 7948

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7948

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cagacctatc aatttatgta ctatgcatca taaactgatt tccaagggtc ttgtccacca 120

ttttcgccct tctttagaag agatcataag ctttcttcaa cgaagtttca tgccttggaa 180

gggaaccttt gataatgcca ttgtagctca agagggtgtt cattacatgc atcattagaa 240

agctaagaag gggatcatgg cttttcaaat tggcctagaa aaggcctatg acatgggttag 300

ataggatttc ttggagatgt ctctcatcat attcaacttc tcgtgaatca ttattgacct 360

gatcatatgg ggtattcgat atacttcttt gtcccgatg tggaatgg 408

<210> 7949

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7949

agaaactcac gctngcgctg agctcttttg accctagaag aactcttgaa attttttctt 60

cancgaancc catatatctt ttgtcttgct cctcttgagg atcgntcaa ggacttcacg 120

atctattgtt tggaaaaggt aattatttac cttaagtcc ttcaacttct gtcctcgat 180

caatatgcat tgcgtctccg taggctctat tccatctgcc accatcaata tccattctc 240

aatgagatcc taatattctt tggagcggag aaaattctcc atcaacattg cccaatgatc 300

ataatgacca ttaaaccttg gaattgcacg ctgcacgaaa ctgctactcc caccttctgc 360

cattcttctc aactcgttct actcgaaaga aagaaaaact gcagtttctt tcttgactca 420

cactcaatgt ttttctcaca tgc 443

<210> 7950

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7950

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agacctatca atttatgtac tatgcatcat aaactgattt ccaaggttct tgtccaccat 120  
tttcgccctt ctttagaaga gatcataagc cttcttcaac gaagtttcat gccttggaag 180  
ggaacctttg ataatgccat ttagctcaa gaggttggtt attacatgca tcattagaaa 240  
gctaagaagg ggatcatggc ttttcaaatt ggcctagaaa aggcctatga catgggttaga 300  
taggatttct tggagatgtc tctcatcata ttcaacttct cgtgaatcat tattgacctg 360  
atcatatggn gtattcgata tacttctttg tccgttatgt ggaaatggc gcgtttgagt 420  
agc 423

<210> 7951

<211> 424

<212> DNA

<213> Glycine max

<400> 7951

agcttttcat agtagaacgt gggtaactga ttctacctat tattgtgatc atctccctct 60  
ccgtcatggg cgggtacaact tgggctgcaa gatctctcca tctctgggca tattecttaa 120  
tggactcatg ctctcgttta gtcataccct gaagctgggt ccgatcggga gccatgtccg 180  
tattgtactg gtactgcta atgaaggcag ttgccaactc cttccatgat cggatctggg 240  
aagcttccag attggtataa cacgctacag ctgccccggc caagctatct tgaaagaaat 300  
ggaccaacaa cttttcgtct gcagaatagc ccccatctt tcggcaatac atccggagat 360  
gcccctttgg acatgtcatc cttttgtact tatcaaagtc tgggtactttg aacttgggag 420  
ggat 424

<210> 7952

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 7952



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 cgtggctaaa gttctggcca agaggctggc ccttgtgtta cctcatctta tagatgaaag 120  
 acaaacggat tttatgaagg ggaggcacat tcttcatggt gttttgattg ccaatgaggt 180  
 tatagctgag gctaaggcta gaaataaacc ttgcatggtc ttcaaagagg attttgaaaa 240  
 ggcgtatgat tcggtttctt gtggttttct tgactacatg ttgatgagga tgggcttttg 300  
 tgaaagatgg aggaaatgga ttaatggttt cctgtccact gcaaccatat ccattttaat 360  
 taatggaagt ctgttttttg agatgccact caacataatg ttagaacctt anaatgtatt 420  
 tg 422

<210> 7953  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7953

agcttagccc tagaggggat ttttttttat gttttggaga ggatcaataa caatgcctat 60  
 aggttggacc tcccagaaga gtatggagtc agcaccactt ttaacatttc tgatttaact 120  
 ccttttgcag gtggagctga tattgaggag gaggaactaa cagatttgag gtcaaactct 180  
 cttcaagggg aaggggatga tgcaatcctc cctaggaagg gaccaatcac aagaaccatg 240  
 agcaagaggc tocaagaaga ttgtgctaga gctgctgaag aaggccctag ggttctcatg 300  
 aaccttangg tagatttctg agcccatggg ccaagggttg gtccaattat ctttgtacat 360  
 attagactag gatgtcatta tatttgggtc ttgtatatag ggctccatat t 411

<210> 7954  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 7954

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 accctttaga aatgtggcgg tacataatct aaaaatctcc agaaggattg tctgtgatct 120  
 atgaaattag aatatcaatt cagttttgct tgataaggct agaacacata ttgctattaa 180  
 cctattaaat attaaataat ttttttccta attttattgt tataatttta atggttacaa 240

ttaatatgta acttgattac gtaattagta acttggaatt catttagttg gttaagtcac 300  
tatataaaca ataagaacta ttggtcctaaa ataatttatt agatgaattg tgtataattt 360  
agatgtagtt caaataacgc tcatttttgg ctcttgactt ggg 403

<210> 7955  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7955

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tttgtcagtc aaggctctgga atgtatctta tttgttattg ttattttttac ctggattctg 120  
tattttgaaa ataaagcata gaattgattg ttattacttg atgcagttct ttgacattac 180  
aaatgtttat agcttgccgc ggaatacctg ttttagtggg atttcttgaa gctgattatg 240  
ccaagtacag gttagttggt gtttgtgaat tgtgcttaac acagaagtac taacattttc 300  
actagatagt ttgcaatgca atgccaatat ttgaacttct ctggccctgt tctacctaaa 360  
aatttcagaa cattataaac atgtgctttc accctgcttg aggcctgang gcctttgtgt 420  
gagggtcttt cttacatgta aaatccattc cct 453

<210> 7956  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 7956

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gttatcaatc aacaaccgga taggactaca atcccgttaag tccagttctt ccattaaagc 120  
tctcacacat agagcgtgac aagctgccat agcagcaaca gtatattatg ctctacatgt 180  
tgacgaaaca actacactct gcttctttga gcaccaacag attaagtgtg ctccaaattt 240  
gaaaacatat ccagcagtgc ttatactatc atccttatca ctacaccaat ctgaatcatt 300  
ataaccaaac acttcttctg tatattctta c 331

<210> 7957

<211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7957

gtgcatccaa taccctgatg aggagggcct tttgtncctta ttactggacn ganacattcg 60  
 cttncaaagt ttcattggcct tgcacgcgaa caccgcgaca aacatttgaa agaatttcac 120  
 attgtctgct ccaccatgaa acccccacat gtccaagagg atcacatatt tatgaaggct 180  
 tcttctcatt cattacacgg agcggcatac gactgggtgt attaccttgc tccaagggtcc 240  
 atcacgagct gggatgacct taagagagta ttcttagaaa aaattttccc tgtttccagg 300  
 accacagcca tcaggacgga tatcttaggt attagacaac tcagtggaga gagcctgtat 360  
 gagtactggg agagatttaa cagactatgt gccagcttgc cccacca 407

<210> 7958  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <400> 7958

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 aagatggaga aaatggatct atggatgtct atctagcgca actatatcaa tcctaataca 120  
 tggcagccct actagagagt ttgtgcctga gaggggacta atgcagggag acccccttgc 180  
 acctttccta ttagacataa tagctgaggg ccttactggt ttgatgagga caactgtctc 240  
 taaaaacatc ttcagccgtt atcaagtggg gagggcaaaag gaagagatta atatactgca 300  
 atatgcagat gataccattg tgctttggaa ctgcgactac aactaatggt agagtcatg 359

<210> 7959  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7959

agcttgtgac atgaggccat taagtgcctc tgccactatg ttatatagaa gagngatag 60  
 aggggtctcct tgcccttagtc ctttctgagg taggaactca gctgagggac taccattcac 120

caaaaatgaa acagatgctg attttagaca cccctcaatc cattgaattc atttgctgca 180  
aaagcccatc ctacccatca tataagttag aaactcccaa gacacaaaat catatgcctt 240  
ttcataatca accttgaaga caatgcaagg cttttggcat cttttggcct cttcaactac 300  
ctcatttgta gtcaccacgc tgtgttagcat atgtcttctt tctataaatg ctgattgcct 360  
ctcatgaata ataaaaggca tgaccttctt caatctattg gccaatattt tagccactat 420  
ctt 423

<210> 7960  
<211> 426  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7960

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tatacgagac atcttgccaa acaaagtcag gttcacgata actcgtctgt gcttttttctt 120  
ccatgctata tgtagcaaag tgattgatcc acgaatgttn gatgagttgg aaaatgacgc 180  
cgcaattata ctgcgccact tggagatgaa ttttccccct gctttctttg acatcatgat 240  
tcacttgatt gtgcatctgg tcagagaaat caaatgctgt ggtcctgttt atctaccatg 300  
gatgtaccgc gctgagcgat acatgaagat cttaaaaagg tatacaaaga atctatatcg 360  
ttcggaagca ctattgttga ctgtacattg cgtaaaaagcc attgaatttt gttcatacta 420  
cttaca 426

<210> 7961  
<211> 241  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 7961

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gccatagatg gcccttttta gaagataaac tttatcttct tcactttgct tcatgaatcc 120  
ttctggttgc tctacatata tttcttcttg tagctctctg tttaaaaaag ctgatttaac 180  
atgtgtggaa gccatgcctt cccagattat tttgatgatg gccagaatc aagagtctag 240

<210> 7962  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 7962

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 gccgatctca cctagtggga taaaagctta gttggtgttt caattatcat attcagttct 120  
 tatttgacga cttctcattt ttatgccttt ggtattcaat tntattccat gtgcctaacc 180  
 aaagtatctt ggtatgtatt taaattttgt tttcaggga agggtcctct attatctgtg 240  
 gaggcactgc atcaccttca tacatttatt tttgtcctag ctgtggccca tgtcacatct 300  
 tgtgttctca ctgttgttct tggagggtca aaagtgagtg cataatatgc tntattataa 360  
 gatgtgcttg atgaaacgct cttttttgag tctaataat taactctgat taacagatac 420  
 ctgagtggaa acact 435

<210> 7963  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <400> 7963

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 taatggagaa ggaagaaaga tgattggaga agccacttca aggagaagat gagtcaagaa 120  
 gaagctcacc accataggaa accatggata agagcttgaa ggtagaagaa gatgagtgga 180  
 gggagagaaa gagcacgaat ttttgtactt aaatgaggta tgaaatttga agtgaattc 240  
 tcaaagtatc aaagttgaaa aaaatgcaca cacatgacct ctatttatag cctaagtgtc 300  
 acacaaaatt ggagggaaat ttgaatttct attcgatatt cacttgaatt tgaaattgaa 360  
 tttgtggagt caaactatgg agccaaaatt tcaactaatta tgattagtga atcttagaat 420  
 atggttagcc cactaatcca agatcaatt 449

<210> 7964  
 <211> 381

<212> DNA  
 <213> Glycine max  
 <400> 7964

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 aggtagtttc gaagaaaacc agcctcaccg tgatcaagaa tgaaaaggat gagcttatcc 120  
 ccacaagagt gcagaacaac tggcaagtct gcattgatta taggaggatg aactaggtaa 180  
 tcataaaaga tcattttccc atgccattca ttgatcaaat gcttgatcgc ttggcaggta 240  
 aatatcatta ttgttttctt gatggatttt tttggttatt tataaattca tattgtcctt 300  
 gaggatcaag aaaaaaccaa attcacctgt tcctttggca cttttgccta taggagaatg 360  
 ccctttgggtc tatgcaacgc c 381

<210> 7965  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7965

tagactaagt tcagcctacc accctcagac tgttgaccaa actgaacgga ccattcagtc 60  
 actggaggac cttttgaggg catgtgtctt agagcaaaag gggagttggg agagttttct 120  
 gtcgttgata gagttcactt ataacaatag tttccactat accattggca aggctcccta 180  
 tgaagctttg tatggtagaa ggtgtataac acccttatga tggttagagc ccggagaaaa 240  
 cctcacctta ggatctaaag tggtaacaac aaccaccgag aaggtaaagt tgatctaaga 300  
 aaggatgagg actgcacaga gtangcaata aagttatcag tataagagga gaaaagacct 360

<210> 7966  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 7966  
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 gcgatcaagt tttcgtagt ttagcaagaa aattgaacaa ggcttaacaa cgaatgaagg 120  
 aactcgcaga tcagaagcgt cgccaagtga gttttgaagt tggagacata ctgctggtca 180

agttacgtcc tcgacggcag ataacagcta ccaacagttg ctactcgaag ttggcaaagc 240  
 gaatttatgg tccctttcaa gtgacccaat gtatatgcga agttgcttat aagctagact 300  
 taccagcaac ctggaagatt caccagctat tccattgctc cttattaaag ccatttcggt 360  
 tagacacgac a 371

<210> 7967  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 7967

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 actagacatc ttgccaaaca aagtcagggt aaccataact gaccctgtgt attattccat 120  
 gccatatcta gcaaagtcac tgatcttata aagtttgatg agctgaaaaa tgaggccgca 180  
 attatactgt gccagttgga gatgtatatc ccccttgcta tgtttgacat catgattcac 240  
 ttgattgtgc atctggtcag agaaatcaaa tgttgtgggc ctgtttatct gcaatggatg 300  
 taccgggatg ggcgatacat gaagatctta aaagagtata caaagaatct atatcatcca 360  
 taagcatcta 370

<210> 7968  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 7968

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 attcttatct cagatggagt gatctgattc gtcttgagca gaacatccag gatgggaaaag 120  
 gtcaagagac tgaagcttct gctttcagaa atgcagatat ttgtgacaat aaacttgtat 180  
 aggggaaaag ttgttatgga atagcttttg ggagccaaaa acatcttctt tctcgggtga 240  
 tgaaaaatgt tgttcaagtg gagcaagatc cagaaggaaa ggaaaagtat tgggttttttg 300  
 aaacacgtat tccattatat ttgataaaaag 330

<210> 7969  
 <211> 349  
 <212> DNA

<213> Glycine max

<400> 7969

tataatatat cgatacgctc gaaatttaac atcggaact ctcacgaaat tcaaatagtc 60  
ataacttttc acacggatgt ccgattcggg cgcataatat gtcgagaagg tcgaaattga 120  
acaacggaag atcttgagaa attcaaattg tcataacttt tctcacggat gtccgactca 180  
cgcttataat atatcgagac gtcgaaatt aaacatcgga aactctcgag aaattcaaatt 240  
ggtcagaact tttcacacgg atgtccgata cgggcgcata atatgtcgag aggctcgaaa 300  
ttgaacaacg gaagctcttg agatattcaa atggtcataa cttttcaca 349

<210> 7970

<211> 291

<212> DNA

<213> Glycine max

<400> 7970

tgctttcaag aaattcaaatt ggtcataact tttcagatga aagtccgatt cagccgcata 60  
atatatctag acgcttgaaa ttgaacgccc gatgatgatg acaaatttaa atggtcataa 120  
cttatcacgc ggatgtctga ttcacgcaa ttatatatcg agatgtctga aattgaacaa 180  
tggagctctc gagaacattc aatggtcata acttttcaat tggatgttcg attcaggcgc 240  
atcacatatt gaggtctctg aaatcgaaca acgaaagctc ttgagaaatt c 291

<210> 7971

<211> 343

<212> DNA

<213> Glycine max

<400> 7971

agctttgctt ctacacttag gtgttataag gcatgcaaag catgtaagac atacacaaag 60  
tatgactata tgatgtgaca atgggggtgc acaagcaaatt gctcacctgc ccctctaaaa 120  
tttaatggga ttgggcttat cccaattcaa tcaaatttat ttcccaacac acatcaaata 180  
ttcacttaat gcatgtgaaa ttacaaaatt acccctaata caaaaagtag tctatgtgcc 240  
ctaaaatata agggctgaaa aatcctacat ttctagaata ccctacctac attatggagc 300  
cctaaatata aagcccaaaa agtgtagaaa tcttaattcta atg 343



<210> 7972  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 7972

tattataaaa gaccaacaaa catcggtttt tatataaaac cgatgttggt cacgcaatcc 60  
 acaatatcgg ttttttaaaaa ctgatgctaa ttatgaacta ataacatcgc tttttttttt 120  
 ggaaaatcaa tattaactat taattaacaa catcaatttt tgaaaaatcg atgttaacat 180  
 tatgctagca atattgattt tcgaaaaccg atgttaaaga ttttctttta tttagggaaa 240  
 tgtcactgca aatagtttaa catccatttt ttcttgtaac caatgttaaa ctaactatgt 300  
 tgaatgtact agtgatacca agtgcattga taaattgtcc ccattcttta ccaagaaatc 360  
 aaagtg 366

<210> 7973  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7973

agcttgtagg cctatgatct ttttcatcaa tggattcatt tacttcttgg atgatgaatg 60  
 acagcgaaat ggagaaagga aaagagagag gagacgccac ttcaaggaga agatgagtct 120  
 aaaagaagct caccaccata ggaggccatg gataagagct tggangaaga aagagatgaa 180  
 tgaatggagt gggagagaag agcacgaaat tttgtgctct aaatgagctt tgaaatctga 240  
 agtttaatac tcaaataatc aaagtttgaa aaaatgcaca cacatgacct ctatttatag 300  
 cctaagtgtc acaaaaatgg gagggaaatt tgaaatttca 340

<210> 7974  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 7974

tctacttttc ttctccttag tctcctcttc agtcttccca gtcattgtgt agacaagtgg 60  
 cctcagatat cttaagaagg ggggggttga attaagatat tcgatacttt ttcttcta 120

taaaaatcta tcttactttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa 180  
tattaattca aatgaagcaa cttgaatatg aatataaagc aataataaat aaaggagatt 240  
aagggagag aaaatgcaaa cttagtttta tactgggttcg gccacaccct tgtgcctacg 300  
tccagtcccc aagcaaccg cttgagagtt ccaactaactt gtaaattcct tttacaagtt 360  
cta 363

<210> 7975  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 7975

agcttcaagg atggatgaac ctcgatatca cgcataaata ttctatcttc aatatctaga 60  
ttgctcacat ccacaacaat ttttgaagga atgtgctcag atggacagaa aaattttaga 120  
ctaggtctga tcttattcaa aattcctcct gcaatggcat aaaagtttca accatattag 180  
cattagaaca gaacattaga accacaaaaa aattcccat gatattatat taaattgaat 240  
ttgcaacatt tggcacccgc ccccttcca aaaataatga tattc 285

<210> 7976  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 7976

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120  
tctatttcac tttttactca agttatgaat tcccttaatg acaatcttct taaatattaa 180  
ttcaaatgaa gcaacttgaa tatgaatata aagcaattat aaataaagga gattaaggaa 240  
agagaaaatg aaaactcagt tttatactgg ttcggccaca cccttggtgcc tacgtccagt 300  
ccccaagcaa ccggttgag aagtccacta tcttgtaa 340

<210> 7977  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 7977

tgtccaaaag ggaagcaagt taaaaactct ttttatagta aaagcgctgt ttctacttca 60  
aaaccctttg aactacttca catagactta tttggtgcct ctagaactat gagtttgggt 120  
ggtaattact atggcttagt tatagtagat gattactcaa gattcacatg gactttgttt 180  
ttgaaaacca aagatgaagc ttttgatggt ttttgcaaac ttgccaaggt cattcaaaat 240  
gaaaaaaggt cttaacattg tttcacttat aagttatcat ggaggtgaat ttcaaaatga 300  
gtctcttgaa atgttttgtg aagaagatgg aattcaccac aactttttta ccctaagaac 360  
acctcaacag aatg 374

<210> 7978

<211> 360

<212> DNA

<213> Glycine max

<400> 7978

tagactaagt tcagcctacc accctcagac tgattacctt actgaacgga ccattcagtc 60  
actggaggac cttttgaggg catgtgtctt agagcaaaag gggagttggg agagttttct 120  
gtcattgata gagttcactt ataacaatag tttccactat accattggca aggctcccta 180  
tgaagctttg tatggtagaa ggtgtagaac acccttatga tggtttagagc ccgggggaaga 240  
cctcacctta tgatctaaag tggtaaca aaccaccgag aaggtaaagt tgatctagga 300  
aaggatgagg actgcacaga gtatgcaaaa aagttatcag tgtaagacga gaaaagacct 360

<210> 7979

<211> 339

<212> DNA

<213> Glycine max

<400> 7979

agcttttaac tcggatgtcc gattgagtcc cttaatatgt cgagatgtc caaattgaaa 60  
acggaagctc gtagcaaatg caaactgcaa taacttttaa ctggatgtc cgattgagtc 120  
gcatgatata tcgagacgct ccaaattgaa aacggaagta acaaattcaa acgacaataa 180  
ctttgtactt ggatatccga ttgagtcccg taatatatcg agacgctcga aattgataac 240  
agaagctctg agcaaatca aacgataatt actttattct cggatgtccg attgagtccc 300

gtaatatatc gtgacgctcc aaatctaaaa tagaatttt

339

<210> 7980

<211> 358

<212> DNA

<213> Glycine max

<400> 7980

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cagatactcg tgtgccctat ttcataataa taatgtctgg ttaaaactct tggggacaga 120

caacgaaaaa gcataaattc aaatatgctt actggagggg caagaccatc atcatccagc 180

ttatcataag aaccatgtct cattccctga aaaatgaaac ttggtaagag accaccaaca 240

ccaaaccaat attcttttcc aaataaaaat tgcaatgcat gaatagttgc ttgctaccaa 300

agccaaaatt ctcaccatgg tgttagctct atctggacgg ccaaaatctt ctttctact 358

<210> 7981

<211> 367

<212> DNA

<213> Glycine max

<400> 7981

tgtacctcac ttggggcaat tcagtttggg actcagggtgc attgccttgt tgtcaaagt 60

gggtttggct gtgaactgtt tgtgggtagt aatttgactg atatgtattc aaagtgcggg 120

gagttgtctg atgcatgtaa agcttttgag gaaatgcctt gtaaggatgc agtgttgtgg 180

acgtcaatga ttgatggctt tgtgaaaaat ggagatttta agaaagcttt aacggcttat 240

atgaaaatgg tcaactgatga tgtttttatt gatcagcatg tgctttgtag tactttgagt 300

gcttgcatg cacttaaagc ttctagtttt gggaagtccc ttcatgcaac cattttgaag 360

cttgat 367

<210> 7982

<211> 359

<212> DNA

<213> Glycine max

<400> 7982

agcttgcatc ctgaagacaa acttctatga tatatagact tgttgcttat gagtacatgg 60

ctaattggttc attggataaa tggatattca acaagaacaa agaggaatTT cagttggatt 120  
 gggatacaag gtataacata gcacttggaa tagcaaaagg acttgcttat ctacatgaag 180  
 attgtgactc aaacattatt cattgtgaca ttaaaccaga aaacgtgctc ctagatgata 240  
 atttcagggt taaggtttct aattttgggt tggctaagct catgaaacgt gaacaaagac 300  
 atgttttcac aacacttaga ggcactagag ggtatcttgc acctgagtgg atcacaaac 359

<210> 7983  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 7983

tgcataaaag ccagactaaa caataaagga ccttttattt tccctctgcc tgccgaagtc 60  
 gggcaatccc ttctacagct tgccttgcaa cagtgccttg accaacccca agtccaatag 120  
 aagcaagccc tacagtcaac ccatcatcaa taacagaacc agaagaaata aatggattca 180  
 tgataattta ctctgaacct aaatataaaa taaagaaata gttaatgata taatcaccca 240  
 ataaaatatg acctaagttt tcaattatca agattttattc gggctaaagt aattaataag 300  
 aatttcgaat tgaatataat catagttatt gaactctacc aattacttcg agattttattt 360  
 tctc 364

<210> 7984  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 7984

ttctaaagtt ttctggtttt ctaaacccttg aattcttgtg ttattcatct tttcattctc 60  
 ttatcccttt gccaaaaaga attctccaag gactaacctg ctgaattctt tttgtgtctc 120  
 tcttctccct tttccaaaag aacaaaggac taattgttag acaagtggcc tcagatatct 180  
 taaaaggggg ggggtgaatt aagatattcg aaactgtttc ccctaattaa aaatctattt 240  
 cactttttac tcaagttatg aattccctta atgacaatct tcttaaatat taattcaaat 300  
 gaagcaactt gaatatgaat ataaagcaat actaaataaa ggagattaag ggaagagaaa 360  
 atgcaaaact 369

<210> 7985  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 7985

agcttcctcc attataaata aatttgacag cagaagtttt ctctttgaag ttttgataa 60  
 tattcctttc atacaaaatt tcatactttg gaaaaacata attaatgcta aaaacataact 120  
 attgaaacat gtaattgaaa atacatgtaa tagaaattaa aattcctaaa tttcataatt 180  
 aggggtttata cataattgag agaaattaaa tcattcctaa atttcataat tacgattcat 240  
 aggagaaatc aaatcattct tggagaatca taaatttcat aacacatggt ctgataccac 300  
 atgtaaaaca ttaaggggtt ccctaaacta tc 332

<210> 7986  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 7986

tatcccatgc ctcttagct tgaaagatga tgtataaagc tttcttgctt ctctatcttg 60  
 aatcctttta agtcttcttt tgtgcttacg aaagtgaagt ctcatcttgt cactccgtat 120  
 agcctttttc aaccatttcc taaacatcat gtgtgatgca atccgacccc ccaagggcat 180  
 tggatagaag actccaagaa gattacgcta gagatgtaag agaaggctct aggggttctca 240  
 tgagccttat ggtagatttc aggcccacgg gttaagtatg agtccactta tctttgtaca 300  
 tattagatta aggtttcatt atttttgggc cttgtattta gggctccata atgt 354

<210> 7987  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7987

agcttgtgtc acactttcaa ttgtcgaagc tgaatacata gctgcaagaa gttgttgtgc 60  
 tcaaagtctt tggatgaagc aacaatgatg taagctccat tggagcttgt aggcctagga 120

tctttcttcat caatggattc ctttgcttct tggaagatga atggcagcgg aatggagaaa 180  
ggaagagaga gaggagacgc cacttcaagg agaagatgag tctaaaagaa actcaccacc 240  
ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 300  
aagagcacga aattttgtgc tctanatgag ctttgagatc tgaagttt 348

<210> 7988  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 7988

agcttggaaac gaaaaaactg atttagtggt tgagacaggc ttttggtgaa gatgtcggcg 60  
agttgaagat aggaaggaac aaattgagta atgagctttt tggagagaac tatctcgcga 120  
acaaagtggc aatcaatatc aatatgcttc gcacgcttgc gagcaaccgg attatgggaa 180  
agaaatatag cacttttgtt atcacaagga agagtagggg gagtagagta aacatgcata 240  
tcgcgccgca aatgagtga ccaattagc tcagctgctg catttgccat agcccgatat 300  
tcagattcac agctggaacg agcaacaatg ggctactttt tagcact 347

<210> 7989  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 7989

ttcatttttt aaatggtaac tcaattatct atttcttaaa actaacgaaa tttattttat 60  
tttggaaaat aagtagttat attgattaat taaaaattaa ttaccaattt gatagatgga 120  
taaatacata gataatcaaa gtataagatt tcaaatctta agctctatct tactattttt 180  
taatcccttt tcccctagtt tctttcctat acaattcatt attaatgtcg tgatatatgt 240  
gtaatacttt ttatactttt cggaactaaa ttttgcattt catatgtcaa gggacacatt 300  
tcccagtaga gtgagaagaa gaaatgtaa ataaatatta tgccaaatat ttggctgttg 360  
ctaggt 366

<210> 7990  
<211> 345  
<212> DNA

<213> Glycine max

<400> 7990

tgttgatctt ggacaaggcg gcatcactaa catgttcttc ttggacggac atgtgtcatc 60  
agtgggagac attgtgacca atggaaaaag aaaagggcac gccttttgcg agcatgcaga 120  
aaaggatgca agagacactg ctgattattc tgccgcaaag cattgtcgtc tggaggcgct 180  
catgctgcat aggtataagc gtggatcctc aagtcttctt catccggatt cactcacata 240  
cattataact ctcccttttaa atcctgagag ataatactgc tcaatcggct ttcgaacata 300  
caaagagaac acacgaggct ctaattgaga tggggaccaa acata 345

<210> 7991

<211> 379

<212> DNA

<213> Glycine max

<400> 7991

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gtattactgt catttgaatt tgctacgagt attcattttt aatttcgagc atttttatat 120  
attataggac tcagagggaa atcggagtaa aatattattg gggcttgaat tttctcaaag 180  
gttctgtttt cagtttcaag cgtctcaaaa tattaaggaa ctcaatcaaa catctgaatg 240  
aaaagttatc gtcgtttgaa tttgctcaaa gctattgttt tcaatttcga gtgtctcgat 300  
atattatggg tctcaatcgg gcatccaagt aaaaagttat aatcgtttga atttgctcag 360  
agtttcttct ttcaatttc 379

<210> 7992

<211> 354

<212> DNA

<213> Glycine max

<400> 7992

tcttagtctc agatgatgca gctgagtttg tttctacctc atgcactcct ctaatgacta 60  
tggcatcatt tatggcgcta aactgctgag agttggaagc catcttctca attaaatttc 120  
tggcttcagc aggagtcatg tctccaaggc ctccaccact ggcagcatct atcatacttc 180  
tctccatatt actgagtcct tcataaaaaat attggagaag aagttgttct gaaatctgat 240



ggtgggggca actggcacat agttttcttaa atctctccca gtactcatac aggtctctctc 300  
 cactgagttg tctaatacct gagatatacct tcctgatggc ttgggtcctg gaag 354

<210> 7993  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 7993

agcttgaaat tgataaacgg aagatgtcga taaattcaaa tggtcataac ttatcacacc 60  
 gaagtccgat tcaggcacat aatatatcga gacgctcgaa attgaacaac ggaagctctc 120  
 gagaaattca aatgggcata acttttcaaa tggaagtccg attcaggtgc ataatatatc 180  
 gagaagcttg aaattgaaca aaggaagctc tcgagaaatt caaatgggtca taacttatca 240  
 cacggaagtc cgattcaaga gcatactatg tgaagatgct cgaaattgaa caacgaaagc 300  
 tctcgagaaa ttcaaatggt cataacttgc cacacggaag tccgattcag acgcata 357

<210> 7994  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 7994

ttgtgggact tagctcctaa acctttctct cacttgtcaa taggaaccaa gtgggtgttt 60  
 caaaataaac ttgacgaatc tggcatcata gtaagaaata aagcaagatt gattgccaaa 120  
 ggttacaacc aagaagaagg aatcgactat gatgaaacct acgctccagt tgcattggta 180  
 gaagccataa gactgcaact tgaatttgca tgtatcatgg atttcagact ttttcaaatg 240  
 gatatgaaga gtgtcttcct caatagtctc attgaagaag aagtgtatgt atatcaacca 300  
 tcagggtntg tggactacaa acatcctaac catgtctata gagtgaaaaa gactttgtat 360  
 ggttttg 366

<210> 7995  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 7995

atcttgtgct gaagtaagta agacatgtgc ctgagatgca tttaaaccctt atctcaacag 60  
gaaagctagg tgaagctaga atgataaacc atttcgggggt cggtagatga aagcttgata 120  
caagaagcat ggttgttgct cgaagtaaga aagaaggctc cttgtacatc atgcagggaa 180  
agatatgaaa aaggagatg aatgttgctt aagatgcaac tcaagaattg tggcacgaga 240  
gattgtgaca catgaatgag aaaggtttgg agtt 274

<210> 7996  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 7996

tcttttggac tcatccccc tttatctcca tgctcaaaat atttttagca gctcccatgt 60  
ccttcatata aaactactaa gtagtgactt cagcttctga attggcaaca aattttcaga 120  
tgctatgagt atgtcatcca catagtgtag tatatagatg taggaaccat cctccacctt 180  
actattataa acacattagt catagggact tctaattgtac acatgagaga caatgaactc 240  
atcaaattctc ttgtaccact gccttagtga ttgcttcaac ccataaagag acctcttcaa 300  
tatatagaga aaattttctt ttacttcac ctcaaaacct ctagattgat gcatcagaat 360  
atc 363

<210> 7997  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 7997

agcttgctaa cccatggaag ctctaatat ctccacact ttttaggggg agccattctt 60  
ggatggccct gattttctca ggtccacttg gaccttattt ctaccaacta caaacctaa 120  
aaaaactata ttatctacac aaaagggtaca cttctctata ttttcataga ggggtgtttt 180  
cctaaagact gaaagaactt gcctgagatg tcctaagtga tcatttaggc tcctactgta 240  
cactanaata tcataaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300  
atgcataagc ctcataaagg tgcttggtgc a 331

<210> 7998  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 7998

tctatagaag gttcgttcct aattttctcta catttgcac acctctcaat gagatgggtga 60  
 agaagaatgt ggcattttacc tgggggtgaaa aacaagagca agccttttgct ttgctcaaag 120  
 aaaagcttac taaggcactt gttctagctc ttcttgactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctgaagtg ggagtttagag ctgtattggtt acaaggtggg caccctat 240  
 cttatttttat ggaaaaactt catagggcca cccttaacta cccacctat gataaagagc 300  
 tttatgcctt aataagagcc ctctaaactt gggaacatta cctatgttac aaagaatttg 360  
 tcattcata 369

<210> 7999  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 7999

ataacaagct cctaccttgc aaagccagcg cggactatca acagcaaact gcataccaag 60  
 tgcaacaaga atacctggga tgctagcaat atacaacatt gtccctccacc tgaaatatgt 120  
 atctgggtggg gccaaataag cattatttgg aaaacaattt tctgttttta aagactataa 180  
 acacataatt ggtggaagaa tcgctgtgaa ttataaagtg aaggcttgat ttcagtgagc 240  
 catagagaag tatgtctcctt ttacattaag ttcaaaacat atcacaatga gtctatc 297

<210> 8000  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 8000

agcttggttg catttgcaaa cttctatgta gtgcttaatg atctagatgt gtcaaagtgt 60  
 gcaatcacca atgttggtat cacagttctc tcaagggcca gtctacctag cttgcaagtgt 120  
 ttttccttgt ctgggtgttc taatgtatca aacaaaagtg cacctttctt gatgaaattg 180

ggccatacct tactgggatt gaatcttcaa agctgcaatt caattggcac caacacaata 240  
gagttgttag tggaaaagtt gtggagatgt catattctgg cttaatcatg ttagaaacta 300  
gaagtaaata aaattg 316

<210> 8001  
<211> 358  
<212> DNA  
<213> Glycine max  
<400> 8001

ctgggatgag ggctatgaat gaagcattgg tttctttggt gaaggagcca ttgatgtaaa 60  
attcatccat gaacctgatg aaatctgggt tcaaaatctc ccaaaaatgg ttaatgaaat 120  
tgaaatttaa tccatccggg gcaggacttt tgtcccccc cccccccacc acaatcccaa 180  
actgttgatt tgatctcaa ttcagaaaat ctagacacaa ggctgtcttt atctcttaag 240  
tcaagagaag aaaattggac accatccaag gttgggtctac tacaacattc ctcggaaaat 300  
ctgtccttga aatagaagat agctgcattt ttaacactgc aaggttcatg caccacaca 358

<210> 8002  
<211> 352  
<212> DNA  
<213> Glycine max  
<400> 8002

agcttctaaa ctttatacaa gattgaagct ctgataccac ttgttggaaca agtggcctca 60  
gatatcttaa gaaggggggg ttgaattaag atattccaaa ctacttgccc taattaaaaa 120  
tctatttcac tttttattca agttatgaat tcccttaatg acaatcttct taaatattaa 180  
ttcaaataac acaatttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240  
agagaaaatg caaactcagt tttatactgg ttgggccaca cccttggtgcc tacgtccagt 300  
ccccaagcaa cccgcttgag agttccacta tcttgtaaat tccttttaca ag 352

<210> 8003  
<211> 291  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8003

agcttctaaa cntatatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
aatataataa gaaagggggg ttgaattaag atattccaaa ctacttcccc aattaataaat 120  
ttatttcact ttcttttcaa gttatagatt cccttaacaa tgaacttctt aaatattaat 180  
tcaaataaaa caatttgaat atgaatgtaa accaataata aacaaaggag attaaggga 240  
gagaaagtgt aaactcagaa ttatactggg tggccacac ccttgtgcct a 291

<210> 8004  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 8004

agcttgtgca tcctataccc tgatgaggat gtcccatatg ttcttaagac tggactgatt 60  
catttgcttc caaagtttca tggccttgca ggtgaagacc cacacaaaca tttgaaagaa 120  
tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180  
aaggcttttc ctcatcatt aaagggagtg gcaaaggact ggctgtatta ccttgtcca 240  
aggtccatca cgagctggga tgaccttaag agagtattct tagaaaaaat tttccctgct 300  
tccaggacca cagccatcag gaaagatatt tcaggtatta gacaactc 348

<210> 8005  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 8005

agcttcaaca tcataccact tctcaggtgc tggaactact tcacatggat ttgatggggc 60  
ctatgcacgt tgaaagcctt ggaggaaaga ggtatgccta tggtgttgcg gatgatttct 120  
ccagatttac ctgctcaac tctatcagag agaaatcaga aacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagagaaag actgtgtcat caatagaatc atgagtgacc 240  
atggcaaata gtttgaaaac agcaggttca ctgaattctg cacatctgaa ggcacgctc 300  
atgagttctc tgcagccatt acaccacaac agaa 334

<210> 8006  
<211> 384

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8006

tgaaggcaaa ctggatgctg tgggtcaactt gggtacccat ctggccttga atcagaaatt 60  
tgtacctgtc gcaagggttt gtggtttgtg ctctctgtct gactaccata cagacctttg 120  
cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180  
caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240  
cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcatatggt ccaaccctta 300  
gcaacaacaa cagcagcctg ctcttactt tcaaatggt gctggcccaa gcagaccata 360  
cattcctnca ccaatccaac aaca 384

<210> 8007  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 8007

tgaaattaaa caacggaagc tctcgatata tttttattgt cataactatt aactcggagg 60  
tccgattcag ggcgcgtaata tatcgagacg ctcgaaattg aacaatggaa gcttttgagc 120  
atatcaaagt ggtcatactt tttcacttgg aggtccgttt caggcacaat atatatcgtg 180  
actctcgata ttgaacaccg gaagctctcg agaaattcaa atggccatat cttttaactc 240  
ggaggtacag accaggccca taattta 267

<210> 8008  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8008

agcttaacat ctgtttnttt aaattttgat gttaatatatt acatataaca tcatgttcta 60  
ctaacaacca atgttgttta ttggaatttt ttaatgtgct gtctatTTTT ttaataaacc 120  
caaaattaat ctacaatatt aaaaaacata accacgacaa ataattttca ttctatcttc 180  
aaacaatttt tagtagaaat ctcataaaaa ttgaatatatt actatgaatt aaaagaatat 240

ttaatgtgca tataacatga attgtaaata ttgtaaatta actaaactac aattccaaaa 300  
 ttactttaaac actaattatt tcatttntaa ctttcaaata gtagtttgtc cactggatgc 360  
 aaagcacctt caatctcttt agtttcaat 389

<210> 8009  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 8009

catgtgacct atgaaactaa gctatgctgc aacatttaca acagacctcc tcaactctca 60  
 tcagcaaaat caaccacagc agaacaatta tgacctctcc agcaacagat acaatcccgg 120  
 atggaggaat caccctaata tcagatgggc tagccctcaa caacaacaac agcagcctgc 180  
 tccttccttt caaatgatg ctggcctaag caagccatac attcctccac caatccaaca 240  
 acagcaacag cccagaaaac aaaaacagt tgaggctcct ccgcaacctt cctcgaaga 300  
 acttgtgagg caaatgacta tgcagaacat gtagtttcaa caagagaaca gagcctccat 360  
 tcagagctta actcgccaga tgggacaatt ggctacacaa ttaaataaac atcagt 416

<210> 8010  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8010

tcttagtctc agatgatgca gctgagtttg tagctacctt atgcactcct ctaatgacta 60  
 tggcatcatt tatggcgcta aactgctgag agttggaagc catcttctca attaaatttc 120  
 tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaat attggagaag aagttgttct gaaatctgat 240  
 ggtgggggca actggcacat agtttcttaa atctctocca gtactcatac aggctctctc 300  
 cactgagttg tctaatacct gagatatacct acctgatggc tgtggctctg gaagcagggg 360  
 aacttntttc taagaatact ctct 384

<210> 8011

<211> 384  
<212> DNA  
<213> Glycine max

<400> 8011

tgcagacaga cgacaccttt atttttgact agagaccacc agcacgacac gtggcctcag 60  
atatcttaag aaggggggggt tgtaatacca tattacaaat tattttccca gttaaaaatt 120  
ctatttaaca ttctatccaa gttataaatt tccttaataa tgaatttctt aaatgttgat 180  
tcaaatagaa caatttgaat atgaatataa aacaataatt aataaaggag ttttaaggga 240  
gagaaagtgc aaactcatat ttatactggt tcggccacac ccttgtgcct acgtccagtc 300  
cccaagcaac ccgcttgaga gttccactat ctttgtaatt cctttacaag ttctaaacac 360  
acaaggacaa tcccttcttt gtgt 384

<210> 8012  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8012

tcacaaattc aattgattat tgtcaatcta tttttcagaa tagttacaaa ttaaaattta 60  
aatacaaagc aaatttgagc aaaattgagt tacattaatt ttacctcact ttcaaaatgg 120  
ttttacatca atttttttta aaaggcaatt tcaagacgtc ttcgattgtg tttttgtttt 180  
tttaatctat tttttacaat aattttttaa atagagatgt tttgattttt ttagtttttt 240  
agtcaccata gcattgcatt agtataaaat attaataat tttactaatg actaattttt 300  
tataaagaca tatatttatt aatactaaat aagttattta tactaataca actcagtttt 360  
aattattaat attatcttat ntatatatac taat 394

<210> 8013  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8013

agcttctagc nattcaacca tatttctntg tactcggatg tccgattgag ttccgtanta 60



tatcgagacg ctcgaaattg aaaacagaag ctctgagcat attcaaacga acattacttt 120  
 tttctcggat gtaccattgt gtcccttaat atatctagac gctcgcaatt gaaaacggaa 180  
 gcctcgtagc aaattcaaac gaacaataac tttaactcag atgtctgact gagtcccgta 240  
 gtatatcgag acgctcgaaa ttgaaacata aggtctgagc aaattcaaac gacaataact 300  
 ttttactcgg atgtccgatt gagtcccgta atatatcgag acgctccaaa ttaaaatagt 360  
 agtcctaca aattcaaacc atataacttt t 391

<210> 8014  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 8014

agcttctcga tatattatgt ccccgatatca gacatctgtg ggaagagtta tgaccatttg 60  
 tatttctcga gagctacctt atgttcaatt tcgagtatct cgatatacta ttttcccaaa 120  
 tcggatatcc ttgtaataac ttatgaccaa tcgaatttct cgagagcttc tgttggttaa 180  
 tatcaagcgt gtcggtatat tatggcctat aatccgacca tccagtgaag tagtatgact 240  
 agtcgacttt ctcgagagct tcctttgttc aatttcgagc g 281

<210> 8015  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 8015

agcttcattc ctttatcact catatttcca agtcttttat gccacaaggc tgaattattg 60  
 acagcctcag taactgctac catatcctca tatgtaatca tgtaaagaga tcctcgcttc 120  
 tttccacgag ccacaatgag attgcctttt gttaccttcc aagctccatc tccaaaagtg 180  
 gtgtgatgtc ccttatcatc caactgcctt atagatatta aatttctctt taaggcagga 240  
 atatgtctga cattgtgcaa tgtccatagg gatccactgg aggtcttgat gtgatcac 300  
 ctcttccgac aatgtcaaga gattttccat ctgcaaagga aacttttcca 350

<210> 8016  
 <211> 390  
 <212> DNA

<213> Glycine max

<400> 8016

ttgaacatga attgtttgac cgtttctcaa acattttattg gggacccaat ttcagggtta 60  
gggttttagt tgtaacaaca gcaacttttag taactaatta acagtaactt ttacaagtaa 120  
tttatcaaac aatattaatt caaccaacta gcttataatt attcagtttt tcaacttcta 180  
atttattagg ttataattaa ttcaattaag tttttcatca taactttaaa cactcaatta 240  
attgttttta ttgtttttct ctatctcttt ttgttatatc acattatata ttatgtttat 300  
cactatttct cttgaaagtt gttagtcgaa gctgagtaaa ggtgttaaatt aaattttattg 360  
aatttaaatgt attatagcaa atttgatata 390

<210> 8017

<211> 296

<212> DNA

<213> Glycine max

<400> 8017

agcttaatga atatgttttg tattatttcc atacaggggt tttgttcaag aggaagaact 60  
gctaacatta gatgtgcaac ctggatggtc gattggagca tggattacat ttgtaggaac 120  
aggatttgat agaccttttag cgtacagaga tgatatagta tttatcatct ccagaagatg 180  
gctccaatta tttagaagag aaggggatga tatggaattg agtgtataaa ttcccttagt 240  
aaaggcactt actgagtgtg caatattatt cccactattg agtcgagagc acatga 296

<210> 8018

<211> 365

<212> DNA

<213> Glycine max

<400> 8018

tcaagtggac taacttcaat cttgaagagc aagtctctgg tgataattgc tccacggagc 60  
aacaatgaga tggatgcac caaactgaat aacgagatcc ctgagcttct ttccatcaag 120  
gaatcactga tcaagtatgt ctttgagcca aacaagaaaa ctgcttaaaa gtattgagcg 180  
gtttcatgtt ttagaaatca aagattatgc atttctgttg cgggctacat agaacacttt 240  
ttatttcatt gttatttcgc tgggttttga taataacctt actataaaaag ctagccatgt 300

ggttctcggtt ctcatagcta caagtgattt cagggtttatt attatgttca tcatgttact 360  
gtggtt 365

<210> 8019  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8019

agcttcaatc atgtgggtga aaaatgtggt cctagttgat ttggttcatg acaaagaaag 60  
aggtagaatt ttgaaattgg atagcattat ttctggggac cagtggaaag aagtggatgt 120  
tttgattntc aacacctacc attggtggac tcacactgga cagtctcaag ggtaatgaag 180  
ctttttgaat ttttaaccac tttttttggc gtttatgaga ggtgctagcc atgtggctaa 240  
tgacatcatt ttaatgtttt attgtaggtg ggattacttt caagtgggca atgaattaag 300  
aaaggaaatg gatcacatgg aagctttcaa gattgggctg agtacttggg ctaaattgggt 360  
tga 363

<210> 8020  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 8020

tgaacaaca gaaatgttgc actgcatcaa gcatttatta tgagctgact aatttcaaga 60  
acagtagcac ataccacaaa cgtattggct ctaacaacat caagcatagt gactcccaaa 120  
agtctcttgg gatcgtaagt accagctctt ttgaaaactt cggctgcaat tctggactgt 180  
ggagttaact ggattgctta tcacattgac aatggcttta ggacagcact ttgcaattgc 240  
ttcacacaat gttttaacaa ttccagcatt tatattgaag agatcatctc ttgtcatttc 300  
cagggttcta ggaacaccag cagggatgat caccaagtcc atgcctataa gtgcatccct 360  
aagctgttgc tgtcccaaaa attctcgaac cta 393

<210> 8021  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 8021

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agcttgcaga atgcgctcgg nctgtttaat atttaagatt tatgacatgg atgaatttaa 60
gcaatTTTTT tttcaagttg agaaaaaat aatgaaaata agctgcaaat aatTTTTtaa 120
ttaggttaat actgtgtact ttctatagaa ttgaaaaacg ataaagacaa aagaataatt 180
aatatatagt atgaaaaaag tattgtgata ttgaagatgc tatacggaca caatTTTTta 240
tgatattaaa taatcaatgt actgaattac tataataata tatataaagt taaatgttat 300
tatatgagaa atattatcaa tatatTTTTa acattnttta ttattgacca caatttatta 360
aaaataacat attgttggtt ttacttctta tttaatgatt 400
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<210> 8022  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8022

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tgcttaggac atagggatca tgccccccac ccacaaatat tttttaatat aatgagaata 60
tcgtTTTTat atgaaagtaa taagaaaaat aagtattaat cattaaatct tatcatgaat 120
gctcatttga atTTTTaat agtcccatta atttcttatg ccactctcat ataaaaataa 180
ttcttccact agatttgtct cctataacat tatgaaatat tctntaaaat tatttatttc 240
tcaattatta atgattttaa gtcattgaca gagcttatag aattttaatt tgcaaacttt 300
tagttgctga aagagcataa acaatgtaat attcattcat cttctttatt atgggttatat 360
tttatagaca atttatgtta atattgcatt ta 392
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<210> 8023  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 8023

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agcttgtctt cctccacaag agatgttcca actgaataac cctgagcctt gtaaaaggta 60
aagatcattc ctccaccaag caagagaaca ttaactttct ccaacaagga ttcaataact 120
ccaatcttgg aagacacctt cgatccaccg acaatagcag caaatggtct cttggggttt 180
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gacacagccc caactagata atcaagctcc tgaacaatt aaaaatacat cagatcaatc 240  
aactgtataa attacataat tacccaatat atatataatg aagctaacaa ttacttccta 300  
caaaccttct gcattaggaa tcctgcaaca gagggcttca agtatttggc aactccttct 360  
gtagaagcat gagctctgtg ggcagtgcc aatgcatcat tcaca 405

<210> 8024  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 8024

tgtgcattca atatcctgat gaggggtgtc catatgttct caagactgga ctaatacatt 60  
tgctgccccaa gtttcatggg cttgcagggtg aagatcctta taagcatctt aaggagttcc 120  
atattgtttg ttccaccatg aaacccccta atgtccaaga aggtcatatc tttctaaagg 180  
cttttcctca ttctttggag ggagtggcaa aagattggct acactacctt gctcccaagt 240  
ccattttcag cagggatgac cttaaagaggg tggtcttggg gaaattcttt cttgcatcta 300  
ggaccactac catcataaaa gacatttcac gcatttggca acttattgga gaaagcttat 360  
atgaatactg tgtgagaatt cagaaactat gtgc 394

<210> 8025  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 8025

agcttccttt cgtaagattt agaattta atgataactc tactcctttt ttaattgaga 60  
aacaaatata gttgggaata tgataatttc accgatacaa aataaaaata aaatacaatt 120  
ggatcgcaac caaaataaca aaataagaat tacaagttat atataatata aatataatat 180  
ttgaagacta attaaatttt gatactgtta cattatatcc cccattaaaa aatgtcatat 240  
tggttatattt acaaataaaa ataactatga aggagtttgc taatttatct atcagtatat 300  
ttacatgata tttcctaaat ttaaataaat attaatgttt catattccaa aagatgaaat 360  
atttaaaatt aatgatacaa ataagattat 390

<210> 8026  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 8026

tatgctgcaa atatttgcaa tagacctcct caactctcag cagcgaaatc aaccacagca 60  
 gagcaattat gacctttcca gcaacagata caaccctgga tggaggaatc accctaacct 120  
 cagatggtcc agccctcagc aacaacaaca gcagcctgct tcttcctttc aaaatgctgc 180  
 tggccaagc agaccatata ttctccacc aattcaaca cagcaacaac ccctgatata 240  
 gccaacagtt gaggccctc cacaacctc cctcgaagaa cttgtgaggc aaatgactat 300  
 gcataacatg cagttttt 318

<210> 8027  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 8027

agcttcatgc ttaactatgt atggtaaaac ttcattactg gtgttcaaga catacaagtg 60  
 agcttggtac aaatcttcta cactcggaga gatcacatgc agtcctcttg aacccttacc 120  
 acccactctg tcatgatgcc gagactcagg aagcccaaca ggtttagctc tctcttagtc 180  
 ttctgaacaa aatacaatgg cttcttctgc aatgtacctc tcaacaatag atgctcttgg 240  
 acgatataaa ttctcogtat acccttttaa gatacttatg tatcgctcaa ccggggtcat 300  
 ccaccgtaga taaacaagac cacaacattt gatttctctg accagatgca caatcaagtg 360  
 aatcatgatg ttaaagaaag cgggggga 388

<210> 8028  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 8028

tcttattttc agcagatgaa gatgaatttg tggccacatc atggactcct ctaaggacaa 60  
 tagcatcatt tcttgcaatg aattggtggg agttggaagc catctttctca atcagattcc 120  
 tagcctcaac aggagtcata tcaccaagag ctcaaccact ggcagcatca atcatactcc 180

tctccatggt actaagtcct tcatagaaat attgcaaaag gagttgctca gaaatctggg 240  
 ggtgaggaca acttgacac aatttcttga atctttccca gtactcatat aagctctctt 300  
 cactaagttg cctgatgtcg gaaatgtctt ttctgatggc agtggtccta gatgcaagga 360  
 agaatgtctt caagaacac 379

<210> 8029  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8029

agcttgtcct tacaaaatat cattatacaa anttgattgt cttaagactt taatgttatc 60  
 atatgcaacc acaacaaaag aaaatgcatg ccaaattcac aagtcctgtg ttgcaactgc 120  
 ttcgagcata attattgggt tgcaatgatc acctacaata aattgacctt tccaaggtgc 180  
 atgataatct tttcattcct agtgcataca atcaactgaa tccaacatac ccggaatgcc 240  
 acatgtctcc tccatttgta gtaggtggcg gaaacattag aacaaataga ggattttgag 300  
 aatttttggg agaagaagg acacaatttt gtatataatt gtatgtggag ttgtttgggt 360  
 gtggtggaaa cataaggaaa aatggatgga aacatttgtc aag 403

<210> 8030  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8030

ntgagcaaat tcgaacgaca attactttta acttggatgt ctgattgagt cccgtaatat 60  
 atcgagacgc tcgaaattga atgttgatgg tcgttgcaaa ttgaaacgac aataactttt 120  
 tactctgatg tctgattgag tcccgttaata tatcgagacg ctcgaaattg aatcttgatg 180  
 ctctgagcaa attcaaacga caataacttt ttactcggat gtctgattga gtctgtaat 240  
 atatcgagac gctcgaaatt taatacgaaa gctatgagca aattcaaacg acaataatct 300  
 ttactcggg tgtctgattg agtctcgtaa tatatcgaca cgctcgaaat tgaatgttga 360  
 tgctctgggt gatttcaaac gacaataatt t 391

<210> 8031  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 8031

agcttcagaa ttcaatttcg cgcgtctcaa tattttacgg gactcaatca gacatccaag 60  
 caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatgggtctcg 120  
 atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgct 180  
 gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240  
 gagtaaaaag ttatcgtcgt ttgaatttgg tcagagcttc aacattcagt ttagagcgtc 300  
 tcgatatatt acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaaaatc 360  
 ctcagagctt cgggtattcaa tttcgagcgt cttgatata 399

<210> 8032  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 8032

tgcttaaaga catatttggt taattaatta ttttaaaacc tagtgaaata ttaactaaaa 60  
 aaagaaactt ataaaatfff atataagtaa tgtagaaatc caaaaataat tgataaacia 120  
 aatcatattg aattcaagtc gttaaagcac aaagtatatc aaacgaatat aaaaagagca 180  
 taatattaaa aaatgtatgg attatagatg gtttacacta ataaagccaa acaaaaatta 240  
 ttattagtta aattaacaat ttttaatcca atttttgaat atataattat attaaatatt 300  
 cttatagaga atatatctac aataatttca ttttagtcta ctcaagtcac atcttatata 360  
 ctattgatcg aggtcgt 377

<210> 8033  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 8033

ttgaatgcac tattcaatgg agttgacaag aacttctttt gactgatcaa cacttgacaa 60



gtggccaaag atgcatggga gatcctgaaa atcactcatg aaggaacctc caaagtgaag 120  
atgtccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttggga 240  
gagaggataa cagatgaaaa gctggtgaga aagatcctca catccttgcc taagaaattt 300  
gacatgaaag tcaactgcaat agaggaggcc caagacattt gaacatgaga ggtgatgaac 360  
tcatcggttc tcttcaaacc t 381

<210> 8034  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 8034

tcagtccctg ataaactggg tcccagaaga caataggagg tgaatattgc tgaaaaccct 60  
agccttgcaa caagtcctag ggaagtagac acggagatgg acaagaaaat ccgcagtata 120  
gtgagtagca ttttgaaaga agcttctgtg cctgatgttg agaaagatgt tccaacatct 180  
ttcggcccaa atgctgaagc cctcccttca cccagtgaag aggaatcaac agaagaagag 240  
gatcaagcct caaaggagac tcttgcacca cgggcaccag aacctgctcc aggtgacctc 300  
attgacctgg aagaagttga ttctgatgaa taaccattg ccaacagggtt ggcacctggc 360  
attgct 366

<210> 8035  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 8035

acgccaccgg catgcatgca agcttttcta tgagggttga tgggttctgt cgtttagaat 60  
ggcatgagca ctggctgaca tattgtcaat tatctcaatt gcttctttcg aggtcttcag 120  
ctttattttc cccctgtag aaacatctac cagttgcttg gtttgcggtc tcagcccatc 180  
tataaacata ttcaattgaa ttggctcgta aaacctatgg gtgggagttc ttcttaataa 240  
acctctgaac ctctocaatg cttcactcag agattcatca gggaactgat gaaatgaaga 300  
gattacagct ttcccttctg cagactagga ctctgggaaa tatttcttta gaaacttttc 360

aacgacttct tccatggttt tca

383

<210> 8036

<211> 385

<212> DNA

<213> Glycine max

<400> 8036

ttattcaaga caattcaaga caaagcaatt aattatatcc aagatggatg atcaagacag 60

tctatagagt cttagaaagg gtatattaaa taggaaggga attccaattg aagtagcaaa 120

aggtttggcc aagaaaatta agttaaaaag tctttttacaa gaaatttact ctctggtaat 180

cgattaccag aggatgtaat cgattaccag tggccaaaac tgatttacia cagctattaa 240

aatttgaatt caaaatttgc cctgtgtaat cgattacaca tatatggtaa tgcattacca 300

gcagtttctg aacgttttaa ttcaaaattt taaagcttgt aatcgattac acatatactg 360

taatcgatta ccagagcaga ttttc 385

<210> 8037

<211> 368

<212> DNA

<213> Glycine max

<400> 8037

agcgtggact agagattttc tctgtatcca tttggggcta cagctatcat gctgagaact 60

aaagccagtg aaatttagtg aactcttggg agatctttgg ccagcttat tggcagcaat 120

gtggcgctgc acccattcca ctgaggttca cactctttac gttgctccgg aatctcaact 180

tgtaaatgat cattgattgt atggatgggg tagacataat aagcttcagt ttgacacaag 240

gatggcaaaa tctctatgga tcacttcgtg ttgaaaagga agtctttgac aattctgaat 300

agatacgaat taccttctgc ttgcgcgcgc cttatggaat cctgcggggg gagcttaatg 360

aacaatgc 368

<210> 8038

<211> 384

<212> DNA

<213> Glycine max

<400> 8038

tgaggataga gacttcccaa gctatattatc ttctctctca aagaggctct ctaactttct 60  
 agcttttctca ctctaagaag tggattcact cttgtcttgg atggttaaga atgaaggctc 120  
 ctacccttat ttatactact ccacctccac aatgaatggt ggagattaat tctctagaat 180  
 gctccacaca ttctaggagt ctctacactc ttctactccc ttccatatcc tttcatactc 240  
 ttccagaagg ttcaagaagg tttcacatat ctctagaata ttctagaggt ttccacagtc 300  
 tttcacaagc ttctagagag ttctacccta ctctagaggt ctacaggacg ttctagaaaa 360  
 ttctacactt ttctagagag ctct 384

<210> 8039  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 8039  
 agctttcact cggatgtccg attcatgcgc atcatatata gagacgctcg atattgaaca 60  
 acggaagctc tcgagaaatt gaaatgatca taacttttca ctgagatttc cgagtcacac 120  
 gcataatata tcgagacgct cgaaattgaa ctacggaagc tctccagaaa tctatatgat 180  
 tataaatatc tcaactcggat gtccaattga ggaacatcag atatcgagac gctcgaaatt 240  
 aaacaacggt acctctcagg aaattcaaatt ggtcataact tttctaacgg agatccgatt 300  
 caagcacatc acatatggag acgtccgaaa ttgaaccacg gaagatctcg agaaaatcaa 360  
 atggctctaa c 371

<210> 8040  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 8040  
 agcttgaaga caagactata cgaggatatc tccttgggta tagcaatata tctaagggct 60  
 accgtgtcta caacttgcaa actaagaaac tcgtcattag tcgagatggt gaagttgatg 120  
 aatatgcttc atggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180  
 aactacctca agaagaagat gaggaagaaa acccagggtga accaccttca cctccatcac 240  
 aacaacaaga tcaagaacta tcatcaccag agtctactcc aagacgagta agatcttttg 300

tggacatata tgaaacctgt aacttggcca tacttgaacc tggaagcttt gaagaagcgt 360  
caaagcacga aatatgggtc aaggcaatgg aagaagagat 400

<210> 8041  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8041

ntgagccaat tcaaacgaca ataacttttt actttgatgt ctgattgact ctcgtcacat 60  
atcgagacac tcgaaattga atgttgaagc tctgagccaa ttcaaacgac aatatacttt 120  
tactcggatg tctgattgag gcccgtaata tatcgaaacg ctcgaaattg aatgttgaat 180  
ctcttagcaa attcaaacgc caatatctct ttactcggat gtctgattga ggcccgttat 240  
atategagac gctcgaaatt gaatgttgaa cctctgtgcg aattcaaacg acaataacta 300  
tttactcaga tgtctgatat agtctcgtaa tattatcgag acgctccaaa ttgaatgttg 360  
aagctctgag ctaattttaa cgacaacaac ttttta 396

<210> 8042  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 8042

tcttattttc tgcagatgaa gatgaatttg tggccacatc atggactcct ctaaggacaa 60  
tagcattatt tcttgcaatg aattgtaggg agttggaagc catcttctca atcagattcc 120  
tagcctcaac aggagtcata ttacctagag ctcaaccact ggcagcatca atcatactcc 180  
tctccatgtt actaagtccc tcatagaaat attgcaaaag gagttgctca aaaatctggg 240  
ggtgaggaca acttgcacac aatttcttga atctttccca gtacttatac aagctctctc 300  
cactaagttg cctgatgtcc gaaatgtctt ttctgaaggc agtggctcta tatgcatgga 360  
agaatgtctc caataacact cttttatgtc atc 393

<210> 8043  
<211> 357  
<212> DNA

<213> Glycine max

<400> 8043

gtgaactatg aaactcagct tatagggtc acgatatttt gttaaata agttcaacat 60  
cggttttttt aaaaacaccg atgttaacaa catgatgtta aggctaacat tggttttctg 120  
gaaaaaacg atgttaactt atcaaacgtt aacatcgggtt ttctcaaac ccatgttaa 180  
taaacttatg ttgacatcgg ttatttgga accgatgtta actaatcaat gttaacatca 240  
ttttttccaa taaccgatgt taatgcactt cgctaacatc ggttttgtga aaaaccgatg 300  
ttaacagata catagtattt acaattatgc caccacgctt accttgacat ctatttt 357

<210> 8044

<211> 350

<212> DNA

<213> Glycine max

<400> 8044

agcttgaaat ttaacaacat aagcttttga gaaactcaaa tggtcataac ttgtcacacg 60  
gaagtccgat tcatgcgcac aatatattga catgctcgaa attgaacaac gaatgctctc 120  
gtgaaattca aatgggcatg acttgtcaca cagaagtccg attcaagtgc ataatatatc 180  
gagacactcg taattgaaca tccaaagctc tcgagaaata caaatgggtca taacttatca 240  
tacggaagtc tgatccatcc acattaatat atcgagaagc ttgacattga acaacggaag 300  
cttctcgaaa acaaaaatgg tcgttcctta tcacacggac gtccgattca 350

<210> 8045

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8045

tctaaactnt atacaagaat gaagctctta tactacttgt tagacaagtg gcctcaaata 60  
tcttaagaag gggggggggt gaattaagat attccaaact acttcccaa ttaaaatcta 120  
tttcactttc ttttcaagtt ataaattccc ttaacaatga acttcttaaa tattaattca 180  
aataaaacaa tctgaatatg aatataaagc atttataaac aaataatatt aatggaagag 240  
aaactgcaaa ctcagattta tactgtttcg gccacacctt tgtgctaca tccagtcccc 300

cagtaacccg cttgagagtt tcactatctt gtaaatttct tttaacaattt ctaaacacac 360  
aaggacaatc ctatctttgt gtttagaatt cc 392

<210> 8046  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 8046

aagctccttc aactgcacat ggctcttaat atttgaatgg tatccctgtg gaaccttcac 60  
ccgatgaaga caccgacgaa gacttatatt ctcatctctg gacaaagtat ggcaagctgg 120  
gggcaagtaa attttcttcc catcatacct tggatgcaac tgtgatcgta tccccatata 180  
agctagatct tgacgggtat tcaagtcata ctctgtcttg ccttgaatgt tgagaagcgt 240  
cccaatcaca ctatcacaaa catttttctc cacatgcata acatcgatac aatgtctaata 300  
gtctagatca gaccaatact gaagatcaaa gaaaatggac ctcttctttc atatgaaact 360  
cttactttta tccatctttt gggtatgtct aaatacatta ttc 403

<210> 8047  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 8047

tttacgtaaa aaccaaactg atcgctggaa tgaggattgt caagaggcct atggaaggat 60  
caagaagtgt cttatgaatc cccctgtgct tatgccacca gtacctggaa ggctctcat 120  
cttgtacatg acaatcttag acgagtcaat ggggtgtatg ctggggcaac atgacgaatc 180  
cggaagaaa gagcgcgctg ttactacct aagtaagaag ttcacgacct gtgaaatgaa 240  
ttactccttg ctcgaaagaa cgtgttgtgc tttagtatgg gcatcccatc gcctaaggca 300  
gtacatgctg agccatacta cctgggtgat atacaagatg gaccgggtta agtacatctt 360

<210> 8048  
<211> 300  
<212> DNA  
<213> Glycine max

<400> 8048

aacactacta ctctcttaac aagtcattgac acccttgagt ttcttgaatg gatgagtgac 60  
 ggtgatcaag agttgtctcag agccaagcca cactgtgtgc gtgcggatgc ggttgtggct 120  
 ttggatggga gaggtcatta tcgtctctatc actgatgctg ttaatgcggc tcccagttat 180  
 agtcaaagga agtatgttat ttacgtgaaa aaggggcttt acaaggagaa tgtggacatg 240  
 aagaggaaga tgaccaacat catgcttggtg ggtgatggta ttggccaaac aattatcact 300

<210> 8049  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8049

tgagcattcc aacgacgacg ttaacgtggg ctccctttt atcaactctt ttggcgattt 60  
 agggcacgcc attgttggcc ctcttgcaa gctattcgtt gatgtcatga tcgtgttttc 120  
 tcattgcggt ttctgcgtca gctaccttat ttccatttcc accacgttgg cctatctcgc 180  
 cggatgatgat gacacctcat cagcatcatg gtctccttg ttttgggggtt tcgccacgcc 240  
 aaaggtgttg tttctgtggg gatgttttcc ctttcaatta gggctgaatg ctatcccaac 300  
 attgacccat ttggctcctt tgagcatttt tgctgattnt gttgacattg tanccaaaag 360  
 tgtggtgatg gtggatgatg tctttgtgtt catg 394

<210> 8050  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8050

agcttgtcgg gtactgnntc aattaagtcc ttggggcatc ccatggacta agcgaaaagg 60  
 ctctagttat taaatactgc acatctttta aggcataaag cgaggatcgg aacctcaatc 120  
 ctacgttctt tttaaaggac tgtgatgaga gaatttaca aggacaggaa tccctggggg 180  
 aaaccaagaa gaacacaaaa aataaaaaa tgcagcgact cctcaattg cccagatcc 240  
 taagcgtaat atcgcttgac aacgtcgaag ttcacgggtg agggtagctc ctggtcatcc 300  
 atgttggcga gcaccagggc cctccagag aaagcccttt ttacaacaaa aggcccttcg 360

tagttcgggg cccactctcc tctgttatct tgtagagctn gggagacttt cttcagca 418

<210> 8051

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8051

agggaataat tctacctata ttattggaat cactcatgct ataganatan nggagntata 60

tgaagagtta cgggtacatt aataacttaa gtggttaaga ttgattagat tttattttta 120

agtcaaactt tcattataga cttaaaaaac tgataatcct aaatgatttg ataaatgtgt 180

aatgcacatg ttaactttta ctattatttt taatttaggc acatcatatg ataaaaat 240

gtattcatgt tgtgaataag gtggttagtc ctctaataaa caaggttatc cttntatcat 300

tagtgattaa cttttatccc tctaataatta ttactcaaaa gtcacatgtg aacatgaata 360

tatatgtctt atgcatcaaa aattgaactt atataagaaa gtatgtgtca tgctatctca 420

gaatttatca tacatg 436

<210> 8052

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8052

ctgccatgga agcacttgat ctgagtgact tcgtttcaac caaggattgt cagaaggacc 60

tatatgagtg ccttactgct aagcgcatta tcttggcatc aatgagttca gaactccaga 120

ggcaacacca agacatggac ccatatgaga tcatcgaaca tcttaagaag atgtacggtg 180

gtcaaagcaa gacggctaga tttcaggtat ctaaggccct gagtagatcc tcacttggtg 240

caaataaaaa agttagacct catgttctta agatgattga tctcatagaa caacttgaga 300

aggtggggtg cactctcggg aaagagcttt ctcaagactt gagtttgcaa tcactttctg 360

agtcantttc ataattta 378

<210> 8053

<211> 408



<212> DNA  
<213> Glycine max

<400> 8053

agcttcattg gttgtatgag taggagatag tgctggagtt gaatcatttg gagtcaaggc 60  
ttcttcatct atttcttcaa agtacgagaa aaatcataag tgtcttcttt ctctctccaa 120  
ttccatgtgc cttcttcata gaactcggca tctcggctca caattgtctt tccattgttt 180  
ggattataca atttgtagcc ttttgaactt gcatcatagc caatgaacgc atgtttctca 240  
ctccgatcat caagcttgaa tcttccttgg tcgggtacat gagcatatgc aatgctccca 300  
aatactctca agtgatcaac tcttggcttc actccactcc atgcttcttg gggagggtga 360  
tctttgacat tctttgttgg ggagcgattg gacaaataaa cggcacac 408

<210> 8054  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 8054

tttcacttct ccctatataa ccctccgctc ccaaactcaa accctaacct taaccttcaa 60  
tcaaaactca aaacttctct tttctttcat tctctctctt ttattcttat catcacaatg 120  
ccttcaattc ccgaagagcc cctcctggct ccgaaccggg atcgcttctg catgttccca 180  
atccaatacc cgcaaatctg ggaaatgtac aagaaagccg aagcctcgtt ctggacggcg 240  
gaggaggtgg acctctccca agacctccgc cactgtgact ccctcaccca cggcgagcgc 300  
cactttgtca cccacg 316

<210> 8055  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 8055

agcttgtgca ttcaatattc tgatgagtat gttocatatg ttctcaagat tggactaata 60  
catttgttgc ccacgtttca tgctcttgca ggtgaagatc cttataagca tcttaaggag 120  
ttccatattg tctgttccac catgaaaccc gctgatgtcc tggaagatca tatctttcta 180  
aaagtttttc ctcatctctg ggagggagtt gccaaagatt ggttgtacta ccatgctccc 240

aggtccatca ccagctagga tgaccataag aggggtgttct tggagaaata cctcccagca 300  
tctaagacca ctaccatcag aaaagacatt tcaggcatca ggcaacttat tggagagagc 360  
ttgtatgagt actgtgaaag attc 384

<210> 8056  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 8056

agcttctacc aagtaccttc aacaagtttg attttattat gacataacta acagcatgca 60  
agatcttgta tgtataaaac ctcgattatg atgtgatttt caactttgtt ctttcatgag 120  
agaaaataac atggcaaact tgttacttct gtgaagtggg atgaaacatt ctattcttgt 180  
ctcatagaag caaagtggag caaaacggga caaacaccat cattagataa ctacctcaaa 240  
tatggcatga tctccattgc tgttcataca ttggtgcttc cagcctcatg gtttcttaaa 300  
catagcttat caaatcagaa actgagacca gcccaataga aagccattac caatctacgt 360  
atgggtattht gtagtaacat attaatgaac ttgac 395

<210> 8057  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 8057

tcttagtttc agatgatgct tatggagcca tcttctctat ttaatttttg gcttcagcag 60  
gagtcatgtc tccaagggct ccaccactag cagcatctat catacttctc tccatattac 120  
tgagtccttc ataaaaatat tggagaagaa gttgttctga aatctgatgg tgggggcaac 180  
tggcacatag tttcttaaat ctctcccgag actcatacag gctctctcca ctgagttgtc 240  
taatacctga gatatccttc ctgatggctg tggtcctgga agcagggaaa aatttctcta 300  
agaatactct ctttaaggta tcccagctcg tgatggacct tggagcaagg taatacaacc 360  
agtcctttgc cactccctct aatgaatg 388

<210> 8058  
<211> 340

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8058

gatttcttaag tcacctgcgg catcaagtct tgatggactt tcttattatg tctccattga 60  
 ctacttcacc aaatgggtca aagcggcttc gtatgccagt gtgactagga gtgtgggtggt 120  
 taggttcac c aacaaagaga taatttgtct gtatagggtg cccangaaga ttatcaccga 180  
 taatgcaacc aatctgaaca ataagatgat gaaggaaatg tgtgaggatt tcaagatcca 240  
 acaccataat tctacgcctt acaagcccaa gatgaatggg gcagttgaga ctgctaataa 300  
 gaatatcaag aagatagttc acaagatgat cgtgtcatac 340

<210> 8059  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8059

cacaaacagc tcaggagacc tctggagatt ttgaagaggc aagtgagaaa gatgctacaa 60  
 agactgcagt aacagatgga actgtccatc ctctaacaag ctatgtaatt aactatgtga 120  
 agttttttatt tggtaagtgc agctatgttg tcatctgac ccaattttgt agccgcatca 180  
 attattttcta gcattttttg ctgtgttcac tgatgacaaa aatgttagac attattgcta 240  
 ttgttatatt gtttttttaa atttatttta cagttctgcg gggtttctgct catggacttt 300  
 ttaatgcatt tcttattaaa tatgcagaga gattggcatg ctatgccaca tanatcaatc 360  
 tctagtttct acgtgttc 378

<210> 8060  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8060

gattcctaag tcacctgcgg cagcaagctt gtaattttgt tatcaagcat cctctaaagg 60  
 aggaggggag agagttactt gtcgagccaa aacaaggtag atttcattct tttagctntg 120

aatatatatc cccaaactat gaagataaaa taaatgaaat aaagattata catgagaatt 180  
 atgctcacgt gctttaccct gtcaaatang tttatacaaa cttagaaggc aaccgtgcaa 240  
 acttagttca gacttcattg gctttgttgt cccttattga tgcaggacag gttaataata 300  
 aagctctatg ttttgaattt ttaccatata ataaatttaa acctcctaac tccttaagcc 360  
 ctatggaaaa accctgcana gtgcaatggc cctctaatta gta 403

<210> 8061  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8061

gcaagcttgc caatccactg gggtcgatgc tttctgaata tccttttgca ccatgcatct 60  
 aggagacaca ttnttcctac cataccctct caccagctcc tgagcaagta atatgttatc 120  
 ctggatattc ctaccaggaa taaaagctga ttgagtgtct tccaccacac tatttatcac 180  
 atcactcagt ctgctagtca aaatcttcga tatcacctta taaattgtgc tacaacatga 240  
 tattgggtctc atgtctttga tgggtttttgc ctccggggac ttagggataa gtgagacaat 300  
 agagcagttg acaactttgt acaacttact agaattaaata aattccagga tagtattctg 360  
 cacatcattt ttacaatagg ccaggcggct ntgaaaaatg 400

<210> 8062  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 8062

acattttctga caacaagggtg atcttgacgg aagggtattga tgggtgttgtt cctccgaagt 60  
 attttgaaag gatagaatca tggccgagca gacagcccat ttctttttta agttattttta 120  
 caattttgct tttaggatca caatacgttg aggattattt aaataaaaata atatgaaaaa 180  
 gatataatat atttttaaata ataaaacatt tcaaaaatat ataacatatt aaataaaaac 240  
 ataaaaaata tacaacatat taaataaaat tgataataag taaaattaaa attattttatt 300  
 taataattaa ttaaataaat attttttagca atttaaaaaa aattgaaaac aaaacaaaac 360  
 aaaataaaaa atgtctaaaa aattcttaat attataaaat aatatataat atcataaaat 420

aaaataaaaa

430

<210> 8063  
<211> 385  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8063

caagttttca atatcaaata gaaatggata gctgatcgtg aaaaagatgg ttgtgtatac 60  
aatatcccaa atgttcctga agttgttgca cttattgttg gtgattttga cccaagctca 120  
aaaagagata ttattgttga aactcaaaat ggacaactac aaagaatcca tgaattacac 180  
tctagctatc tggctctata gtaccctcta ctctttcctt atggtaaaga tggatataga 240  
actaacatac ttcaccactc taaatcatca tgcaaaaaaa ggaagagaaa tcgtctgaca 300  
acgagacagt ggttcgctta tatgcttcag tccaggccaa atgaagcaca aactttattg 360  
ctttctatga aactatttca acaac 385

<210> 8064  
<211> 348  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8064

gcaggcatgc aagctntgag caaattcaaa cgacaataatt tttgtacatg tatgagcgga 60  
ngagaccctg attatattga gacgctcgaa attgaatgtt gaagctttga gcaaatacat 120  
acgacaataa ccttttactc ggatgtctga ttgagttccg taatatatcg agacgctcaa 180  
aattgaatgt tgaacctctg atccaatata aaggacaata agcttttact cggatgtctg 240  
attgagtccc gtaatatatc gagacgctcg aaattgaatg ttgaacctat gagccaattc 300  
aaacgacaat aactttttac tctgaagaat gattgagtcc ctaatttt 348

<210> 8065  
<211> 364  
<212> DNA  
<213> Glycine max  
  
<400> 8065

actagtgagc ttccaattat atgacatgta ccacttgtaa ttttcctatc taatttgcac 60  
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 aaacctacat tgggttggtcc cttaagatac ttaatgatcc tcttaacagt agttaagtga 180  
 gattcctttg gattggactg atatattgca cataatcaaa cacttagcat gatataccgg 240  
 ctacttgcag ttaggttagag aagtgatcca atcacatcta tgtatcttga ttcataccact 300  
 gatttacctt tctcatctaa gtcaaggtag gttaatgttg taacgccttt aaattcaata 360  
 actg 364

<210> 8066  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8066

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 cgtgaacagg aagaacggtt gcctggtcgt ctgctagttt gagtcactca tgcacaaatt 120  
 cattttgatt ttaattcttt ttttcttttt cggcctcccc aatattttttg gtggagtagt 180  
 ccaaaaaaat gtcaattttt ttctttatatt tttttgtgat aaaaaattaa tgttgaaaga 240  
 gagagagaaa aaagaaagca ctctgcccat gtggatgtga agtgtgggct ttctagtcag 300  
 ccttattatt tgtataattg atcttccata tatcagtcac taattcccct accttcaaaa 360  
 tctgctaagt atcacattaa tgaaaacgtt tatntatact gttacttatt tatttctcct 420  
 atcatatg 428

<210> 8067  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8067

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 gggtgacgac atcaatattg tatttggaaa gacccaaaag aaagaaaaaa agtaaaactt 120  
 tcatatgtaa gaagaggctg atattgtttg atcttacata ctgggtctaact ctagatgtca 180

gacattgtat tgatgttatg catgtcgtga aaaatgtatg tgatagcatc atcgacacgc 240  
 ttcttaacat tcaaggaaag acaaaggatg gtttgaatac tcgccaagat ctagttgaga 300  
 tgggtatatg agagcagtta catccaaggt ctgatggtaa gaaaatataa tngcctctag 360  
 cttgtcatac tttgtccaga aatgaaatgg taagtttatg ttagtgtctg caccgtctca 420  
 tagtgccaca gggatactat tcaaatat 448

<210> 8068  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8068

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 actaccactt gttcatgttc ctcaccaata tctatgtgac acatttaagt ttttcaatgt 180  
 atgagacaaa gttaataaca ctcaactagg tgtcctataa aaattaatag gaatcatata 240  
 gtcttggacc attagtaatt tctcatacga tacacaccac ccacctagta ctgtgcttgg 300  
 aattcaaaat ggaaaactga ttatctaaaa taatgcatat ggcataatat cataagaagc 360  
 ttgatgatgc cttacgacca ttttgccatt catgtcacca tagaaaatta tgcaattata 420  
 tnattagttg ccttaaataga 440

<210> 8069  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8069

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 tcaagactgg actaatacan ttgctgccca agtttcatgg tcttgcaagt gaagatcctc 120  
 ataagcatct taaggagtgc catattgtct gttccaccat gaagccccct gatgtccaag 180  
 aagatcatgt ctttctaaag gcttttcttc attctctaga gggagtggca aaagattggc 240  
 tatactacct tgctcctagg tccattttta gctgggatga ccttaagaag gtgttcttgg 300

agaaattctt ccctgcaact aggaccactg ccatcagaaa agacatttca ggcacaggc 360  
aacttagtgg agaaagcttg tatgagtact gtgaaagatt caagaaa 407

<210> 8070  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8070

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tgcaacttaa gagcctggaa ggaaagacgt atgcctatgt atgttgggat gatttctcca 120  
cactgacatg gggcaacttt atcagagaga aatttgacac ctttgaagat cctaagagtc 180  
gagtctaaga cttctacgac agaaagactg cgctatccag agaatcanga gtgaccatgg 240  
cagagagtgt gaaaacagca cgttttccgc attctgcccg tttgaaggca cctctcatga 300  
gttctctgca gccattacac cacaacaaaa 330

<210> 8071  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 8071

atgcattggt taacttggtg acctatctgg cctcttatca gaaatctgta cctgtcgcaa 60  
gggtttgtgg tttgtgctcc tctactgacc accatacaga cctttgccct tccatgcagc 120  
aacctggagc aattgagcag cctgaagctt atgctgcaaa tatttacaat agacctctc 180  
aacctcagca gcaaaatcaa ccacagcaga acaattatga cctctccagc aacagatata 240  
accctggatg gaggaatcac cctaacctca gatggtccag ccctcagcaa caacagcagc 300  
ctgctccttc cttccaaaat gctgctggcc caagcagacc atacattcct ccaccaatcc 360  
aacaacaaca acaaccccag aaacagccaa cagttg 396

<210> 8072  
<211> 433  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 8072

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ttnatnagcg accgaatgca tttctttata aatgtatttt aataatagtt taattactaa 120
tttagtcett atagtttcat catttgtaca tttttgtcct tataatttta aagtgttttt 180
tttagtcett atagtttaca ttttaattcc ctttttagtc atctagttaa aaactgggtt 240
ttttagtatt tataatttga gttttaattc ctttttagtc cctacagttt gaaagtgggt 300
tcttttattt cttatacttt atacgttaat ttctttatag tccttaccat caaaagatca 360
gtaataatat caattacaat taactacaga tatataagca aataattcgt aactaattgt 420
tcccaaataa ttt 433
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<210> 8073  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8073

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tgtatccact taaatttcca tatgctagaa aatcattaat agtacaaaac accattgtgc 120
gtaacctgaa tgtctactgc acatttgcac cccacacatc tacccttct tcccacaatt 180
gtttcaagtc ttcgattaat ggcgtaagat acacatcaat atcattccct ggctgccttg 240
gacccgcgat catcatacac aggataatgt atttacgcaa aatgcacaac catgggggaa 300
ggttgtaaat catcagtaaa ac 322
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<210> 8074  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 8074

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agctttgtaa tgatgtatcc gaggtgttca cgaagcagag atcggggtcg acgcccacgg 60
tgatgaagaa tgttccgagg acagatgagg cgagtttggc gacgccgttt ggaggctggg 120
ggcgaggaag tattggaatt acatggagcc ggcttctggg ggcgcgtggc atgcgcatat 180
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tcacaatagg cgcacggtga aaactatggt gatgaatgtg gagagggatt cgggtgtgtg 240  
cgagatcatg atccatgcga tgggccttgg attcagtttc tggagctggg aacgggggca 300

<210> 8075  
<211> 442  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8075

ctatcttaag gtcgatgcat gaaaacatnn nnnnncatta taagtnttct ccaaatatca 60  
gctgatgtcc caaacatgat tatttttcag acaattttct ttctttctct caaaaacaaa 120  
tttcagctgt cccaaacacc ccaagggtg cagtaataac ataccactat cctgaagaat 180  
atatctcttg gatatatctt tcatggtatc ataagcagt agatcaatgg cagcataagg 240  
aatcatgcca agcagagatg gaacaagccc tctgtagaaa gctcgaggtc cctcttgaac 300  
ccatatattc attgtaagtg ttcccagctt atgaaccttt ccaccttcag agggacaagt 360  
ctgtaacctc agtttaatga gatccattgg atagatagca gcctgtgcaa ttgcaccagc 420  
cgtaccaact gcaacaagcc ta 442

<210> 8076  
<211> 316  
<212> DNA  
<213> Glycine max  
  
<400> 8076

gagcgttctc gtatattatc ggcctgaatc agacatccga atcaaaagtt atggctgttt 60  
gaatatgcca tgtgcttoga tgtttaattc tgagcatctc gatatattat gcacctgaat 120  
cgggcatctg agtgaaaagt tatgccatat gagttagccg agagcttcgt tgttcgattt 180  
ctagcgtctc gacatattat tggcctgaat cggacatccg agtcaaaagt tatggcgggt 240  
taaactttgc atgtgcttcc gtgtttaatt atgagcatct cgatatatta tgcacctgaa 300  
tcggacatct gagtga 316

<210> 8077  
<211> 413  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
 <400>        8077

gactcatggt ctctatgaat gacttattcc tttggataaa ggnagtgttg ccatattttc    60  
 tttattccat actaaggcat acaactcctt atcatangtt gaatagttaa gggtaggacc    120  
 actataaatt tcactaaaat aagcaattgg atgaccttct tgcatacaaca cagccccaat    180  
 cccaacattt gaagcatcac actcaatttc acaagatttt tgaaagtttg gcaacgcaag    240  
 tatgggggca ttagttagct tttgcttaag aacattgaaa gcttcttctt gtttctctcc    300  
 ccatttgaaa ccaacatatt tcttgagcac ttcattgaga ggtgctgcca atgtgctaaa    360  
 atccttcaca aatcatctat aaaaacttgc taagccatga aaactcctca cct            413

<210>        8078  
 <211>        313  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        8078

agctttgata tggatattat ttngaaatca taagatggca cgtataagac atcattttaat    60  
 gtaatgaatg cagaaagttg tattgtgcct gagtgggtag catagacaag atgaccattt    120  
 ggtagtttaa ctgtgatggg attaatttga tgatatgagt gaaaatttgt tagagaggag    180  
 gaaacatgat cagtggctcc tgaatctaag atccaggagg tagaattggc tttttcgcaa    240  
 gatagaatta tacctgttgc atcgttattg gaacaagatg aaataaaggc gacctatggc    300  
 ttgatgggtg ctg                                                                    313

<210>        8079  
 <211>        416  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        8079

agctagtgtt tttctcaaata ataagacatg catgatgccc tttccactg tatccactta    60  
 aatttccata tgctagaaaa tcattaatag tacaaaacac cattgtgcgt aacctgaatg    120  
 tctactgcac atttgcattc cacacatcta ccccttcttc ccacaattgt ttcaagtctt    180

cgattaatgg cgtaagatac acatcaatat cattccctgg ctgccttgga cccgcgatca 240  
tcatacacag gataatgtat ttacgcaaaa tgcacaacca tgggggaagg ttgtaaatca 300  
tcagtaaaac aggccaggaa ctgtggttgc tgcttaagct accataagga ttcatccat 360  
cagaagcaag agcaagcctt aggttccttg gctcatcnc aaactcttga taaaa 416

<210> 8080  
<211> 364  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8080

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cgacgaagac actgacaaaa acttatcttc tccttcttgg acaaagtatg gcaggctggg 120  
ggcaagtaaa ttttcttccc atcagacctt gaatgcaact gtgatcgtat acccatatca 180  
gctagatctt gacgggtatt caagtcaccc ttctgtcttgc cttgaatgtt aaggagcgtc 240  
ccaatcacac tgtcacaaac atttttctcc acatgcataa catcaataca atgtctaaca 300  
tcaagatcac accagtacgg aagatcaaga anatgacctc ttcttcatat caactctgac 360  
ttta 364

<210> 8081  
<211> 288  
<212> DNA  
<213> Glycine max  
<400> 8081

agctttccga actagacttt tcctcattat tcgaaccttc aagcaccaca gagtaaaaaa 60  
aattaagcaa gatgaaactg gtcaggaatt ttacaagtgt atcctaaatg agagattcag 120  
atgtaaagtg taagaatatg cgtgctgccc tatctactta ctatgaggct ctcttgaaga 180  
atttcacgtg acacattgag tggaagtcac ttgagtaaca acacctttga caagcttagt 240  
atcggggaac tgggttagcag taaaacatag tgaggataaa tatcagac 288

<210> 8082  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8082

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aaaaaaaaaa ctacagtacg aaatttagca tgaaaaaatc tatattgctt ttgtcaatat 120  
tttcatgctt aaaatttggc aacttaattt taattaaaaa ttttaattaca tccatcaatt 180  
attaaaaatat tcaataagat cttcaaataa tttaaaaaat actataatca tatcatttgt 240  
taactctatt agaatgataa aaattatata aataaacgtt tttatatcaa ttgcataagt 300  
aatgtaaaaa tattttattca catcaataac atattttaag aagtaactaa tttttta 357

<210> 8083  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 8083  
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aaaaccggcc tcatcatgat aaaaaatgag aaggaggagc tgattcctat tcgggtgcag 120  
aacagttaga gagtctgcat tgactatagg aggttgaacc aggtcaccaa aaaggaccat 180  
tttcccctgc cattcattga ccagatgctt gaatgcctgg caggtaaadc tctactactgt 240  
ttccttgatg gtttttctgg ttatatgcaa atcactatta ctctgagga tcaggaaaac 300  
accacattca ccagcccctt cggaactttt gcctatagaa ggatgccttt 350

<210> 8084  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 8084  
tgtaaaaaaa ggaagcaagt taaaaactct ttttatagtt ttaaacatta tttctagttc 60  
aaaaccctt gaactacttc acattgattt atttggtccc tctagaacta tgagtgtagg 120  
tggaattac tatggcttgg taatagtgga tgattactca aggtttactt ggaccttgta 180  
cttgaaaacc aaaaatgaag cttttgatgc tttttgcaaa cttgccaagg tgattcaaaa 240  
tgaaaaaggt ctgaacattg tttcaattag aagtaatcat ataggtgaat ctcaaaataa 300

gtatcttgaa atcatttgtg aagaaaatgg aattcaccac aatttttcaa cccaagaata 360  
cc 362

<210> 8085  
<211> 327  
<212> DNA  
<213> Glycine max  
  
<400> 8085

tgcttggaac ctatgtcttc tgtgttatac tctatctcat ttgaagcagc gcccgaatat 60  
ctatcctatg gattttcatg gataaagtgc ttgttctttt ggggcaagaa catgctattt 120  
cactagtaac tggaactac tgcatttggc tcattcctgc actctttggt tatgtggtac 180  
ttcaagcttt ggttcgttat tttcagactc agagcttgat ctttccaatg cttgtaacct 240  
cagctgctgt ctttaatttcg catataccta tttgttgggt actaatgctt gaactgggac 300  
ttggacaaaa tgcacgggcc ttattca 327

<210> 8086  
<211> 362  
<212> DNA  
<213> Glycine max  
  
<400> 8086

tgaaggcaaa ctggatgcgt tggtaactt- gttaaccacag ctggccttga atcagaaatc 60  
tgtacctgtc gcaagggttt gtggtttgtg ctctctgtgt gaccaccata cagacctttg 120  
cccttccatg cagcaacctg gagcaattga gcaacctgaa gcttatgctg caaatattta 180  
caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240  
cagcaacaga tacaacctg gatgaaggaa tcaccctaac ctgagatggt ccagccctca 300  
gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360  
ca 362

<210> 8087  
<211> 333  
<212> DNA  
<213> Glycine max  
  
<400> 8087

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tcatgatcat ttgaatttgt cgagagttaa cgatgtttta tttcgagcgt gtcgatatat 180  
tataaccctg aatcgtacct cagtagtgac agctatgacc atttgaattt gacgagagct 240  
tccgttggtc aatttctaact actcactata tgtgatgcgc cttaaattgga catttgtgtg 300  
aaaacgtatg accatttgaa tttctcatga gct 333

<210> 8088  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 8088

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aacgtaatta tatatgtaag actaattaat ctaaaataac tttgcatgat taacatactc 180  
agtgtataa cactaatagt ttggtaataa ctaattcatt gataaatatt ataaaatcat 240  
caatatttga gagtattaga ataaatttta ctctgtatta gaataaaatt aattagatgc 300  
aaacctatta acgaaatgct ttaacttcac caaatatgtg attatgaaag caaagggtag 360

<210> 8089  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 8089

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tacgtccagt cctcaagcag cccacttgag attttccact ctctttgtaa aactcctttt 120  
acaaagtctg aaccacacaa ggacaaccct tcccttggtg tcaagaatcc tctacaacaa 180  
gagaccacg gtctcttaat cccttttcaa aaataagaag aagagaagaa gaaatctctc 240  
ttaaagaga taaattgtac aatgaagatc aatcaaaatt ccttattgaa tatgcaaggg 300  
tttgaccaag acatttcagt tcagaaaaac tcttaatctt tcgagaggat aaaacttttt 360  
gg 362

<210> 8090  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 8090

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 tttctttgac ccctagttct cacactctgt ggcatactag gctgggtcat cctaattgctc 180  
 atgttcttaa actttctctt aatcattgta atattgctcc atccaataaa aatgtctctg 240  
 agctttgctc ttcttggtgt gtaggaaagt cacaccaact cccttcatct agttctcaaa 300  
 ctatatactc tactccattg gaattaatta ttactgattt gtggggaccc t 351

<210> 8091  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8091

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 ggcctattct catccctact tgttatcatt accattgttg tcacatctat cattactaac 180  
 acctttatca tcgccataac attgttatca tcaattgtta aagttgttat cactattatc 240  
 attatactca ttattgttat tgtcgntact ataaccctca ctaacaccct gtgtgtaata 300  
 gntgtgatga ccataattat aataatgata ataatgaaaa a 341

<210> 8092  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 8092

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 ttgcccttcc atgcagcaac ctggagcgat tgagcagcct gaagcttatg ctgcaaatat 180



ttacaataga cctcctcaac ctcagcagca aaatcaacca cagcagaaaa attatgacct 240  
ctccagcaac agatacaacc ctggatggag gaatcacccct aacctcagat ggtccagccc 300  
tcagcaacaa caacagcagc ctgctccttc cttccaaaat gctg 344

<210> 8093  
<211> 361  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8093

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tccaagtta tcctttccat tgtttaatac aaagcatttg caaccaaaaa catgtagatg 120  
tgagatattt ggtttcctac cattaaacaa tttgtatgga gttttcttta agataggtct 180  
tattaaagcc ctattcatga tataacatgc agtattaacg gcttcagccc aaaaatattt 240  
tggaagagga gtatcattca atacggttct agcaatttct tccaaaaacc tatttttcct 300  
ttcaacaact ccattttggt gaggggttct aggtgcagaa naattatgtt caataccatg 360  
c 361

<210> 8094  
<211> 351  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8094

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gctttccagg ttctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180  
tcatagttgg ttccatccag aattggtggt ctgttcaactg gtcctccttc tttctccatg 240  
ttcatcagaa tttatctccc tagatctcac tcagtgattt cgagtgcctg ctctgatacc 300  
aattgaaatt ctgatcctgg ggacagatgt cgtacaggat gtcacgacat c 351

<210> 8095  
<211> 353

<212> DNA  
 <213> Glycine max  
 <400> 8095

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gtcttcaaga gagataaatt tgaatggac accatctagc tttggcttac aacccccctg 180
ttctttgaat ctagtttcaa aaaactactt cacttcctcc tttacacaat gtggctcttc 240
cacccccccc cctccaccc tcaagcctct caacatattt ttcttccttc tccaatgacc 300
acatgaatta aaatattttg aatttctatc accttcacg acccaccttg ctc 353
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<210> 8096  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<400> 8096

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gagaggatga gaatagcacg aaattttgta ctctaaaaga gttctgaaat ctgaagtta 120
attttcaaat tatcaaagtt gaaaaaaatg cacacacaag gcctctattt atagcctaag 180
tgccacacaa aaatggagga acatttaaat ttctattcaa atttcacttg aatttgaaat 240
tgaatttgtg gagccaaact ttggagccaa aatttcactt tttatgatta gtgaattt 298
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<210> 8097  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 8097

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agaatcttca gaaacaagtc acttgaagaa ttgtgacttt tggaaatgta tttttcaaaa 120
tcagtcactg gtaatcgatt accattaagg tgtaatcgat tacacatcaa cagatgtgac 180
ttcattttga attttgaaaa tcttaacatt ttaaaacact ggtaatcgat tacatgatta 240
tggttaactga ttacagcttt gtaaatcagt ttgaaaaaaa tgctggctac tggtaatcga 300
ttactacctt ctggtaatcc attaccgag agttaaacac tttggtaaaa aa 352
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<210> 8098  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
  
 <400> 8098  
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 ttgccatgcg tagtgattgc ttaaggcaat tctccattct caaccctttt tcggaacccc 120  
 atgaattgog tactcgttca tgtgcctttc aacttcgagt atggagcctt gcgcagagat 180  
 ttgcttatgc aattctccat tctcaaccct ttttttggat caccaagaat ggtcgttttt 240  
 gttcatgtgt gctccatctt ctattttgga gacatgcgtc gtgattgctt agtgcatac 300  
 ctcatcttta atctcttttt gggagcccca aga 333

<210> 8099  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
  
 <400> 8099  
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 tatattatct acacaaaagg tacacttctc tatattgaca tatagagtgt ttttcctaag 180  
 aactgaaaga acttgcctta aatgtcctaa gtgatcatct aggtccaac tgttcactaa 240  
 aatatcatca aaataaaca ctacaaatct atctatgaaa tcccttaaca tatgatgcat 300  
 aagcctcata aacgtgcttg gtgcattatc gatcccaaag gcatcact 348

<210> 8100  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
  
 <400> 8100  
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 ttgtcttgaa acaccttaat gttcctagat ttccagataa gccaagatgt aattgcaaag 120  
 aacatgatgc aatcctaccc tccaagggca ttggatagaa gactccaaga agattggacc 180

agagatgcag aaaaaggccc taggattctc ataagcctta tggtagattt tgggcttatg 240  
 ggcatagtat gagcccactt atcattgcac atattagatt aaggtttcat ttttttggg 300  
 ccttgtatatt agggctccat actgtaagga ggttacccta ataatgt 347

<210> 8101  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
 <400> 8101

agcttggagg aagaatgaga ttattgaggg agaggaagag aagagcctga aattttgtgc 60  
 tctaaaagag ctctaaaatc tgaagtttaa ttttcaaag atcaaagttg aaaaaatgca 120  
 cacacatgac ctctatttat agccttagtg tcacacaaaa ttggagggaa atttgaattt 180  
 cacttgaaat tgaaattgaa tttgtggacc caaactttgg agccaaaatt tcactaataa 240  
 tgattagtga attttagtta tgggtcaggc cactaatcca agatcaattc caagattctc 300  
 cactaaatgt gcttaagtgt catgaggcat tgtaagcatg a 341

<210> 8102  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <400> 8102

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 ttagtggttc acgggtaaaa ggtatggtct atttgtggtg gacgactact ctagatgaac 180  
 atggattatt tttcttacct acaaaaatga gtattttaga gtcgtcttta aattttacaa 240  
 aagaattcaa agtgaaaaag gagtatacat tacttcaatt acaaatgac atggtggaca 300  
 attctaaaat gaaatTTTTT ttcattattt gaactaaaat ggtattcttt gcattttctc 360  
 a 361

<210> 8103  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 8103

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gtgttttagct tgtattattg gtttagatga aatcccttcg ctacaagtca aacaattata 120  
cttggtgata gtgccattag ggtttttctt caccctaaac acctatttac aaccaattgg 180  
atccctatat ggaggcagtt cagtaagagt ccatgtacca ttttttatca aagcatcatg 240  
ctcaatcctc cttgttgcaa accaagtagg attggaaaga gcaatttatg ttaacttgtg 300  
ctcacaatta gctagaagaa gagtacgatg aagtcttgga ttgacaac 348

<210> 8104

<211> 358

<212> DNA

<213> Glycine max

<400> 8104

ttccttgaat attcttctgt ggtataacaa attggaattc ctgcctgtcc tgataggcaa 60  
gcgtaaatt gggcaactta aaatcctctc gataattggt tgcaagattg cggatggctg 120  
tgaaagcaac accaaatgct ttgagaacac aaatatgata tgctgcattc caagaaagat 180  
tacactgttg acagaaaagt aaacttcaag ctaacggatt ataaaacctt cactggtttc 240  
acaaaatgct cttcgtgaaa tatccaagag gccatcaatt ccaccttaa cagcaaagca 300  
ttgtttgagt gcaagcaaca aaaagaacgc gtgcatgaaa tacatcttca tcaataac 358

<210> 8105

<211> 352

<212> DNA

<213> Glycine max

<400> 8105

ttagaattgt cctatttggt ttgtgttcct tttgaaatat tttgaaaaaa aaaataattt 60  
ttttttcaaa atatttcaat tttttatagt tgaggcggtta tttgatttca aaatccgatt 120  
attatattcc taacctgaag tgttccttgg tgtattgata aaaagtaata atttttcttt 180  
gaatcttaac aattgatatc cttttgaaac aatttttttt tcttcatttg aattgatagt 240  
gaattctttc aatttcttat tcgatttatg tattcttttt tctaaactaa acaaggcaag 300  
gactaactcc tgaactgcaa gtaaaaaaag ttatagaata gaatatagat tt 352

<210> 8106  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 8106

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 caattggaca atattgggaa gaagatctct cttgcatgag ttggctcgat caacaacctc 120  
 gtgattctgt gttgtatggt gcctttggta gtttcactca ttttgatcaa aaccaattca 180  
 acgaactagc tcttggattg gacctacca atagaccttt tctttgggtt gtgcgtcaag 240  
 acaataagag ggtataccct aatgaattct tgggaagtaa aggtaagatt gttggttggg 300  
 ctctcaaca aaaggtgta agccacctg ctgtaacatg ttttgcacc cattg 355

<210> 8107  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 8107

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 aaccataaac taaaataagc atatgtgatc agtgtcaaaa taaaatgcaa ccatttaca 120  
 aaccaatcaa gaaaataaga atagattatt acagctaacc aatcaacaag cttttcaggt 180  
 agccatgctt gagattgctt gtccacataa aatatttcaa ttaactccca cgcagctttc 240  
 aaagatgtag gctcttcacc tctctatatt atgtgtaatg tgttaaaaag caagtgatta 300  
 acttctcggc atcataattc ccacaaagca gatctcagct cagctaaaca c 351

<210> 8108  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 8108

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 caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatgtga 120  
 cttgagacac gaatttgcta agagtttttc agaacaaaaa ggtcttatcc tcttataaag 180

caaaatcggtt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaagaa 240  
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag aaagatttct tcttttcttc 300  
 ttcttcattc tgaaaaggga ttaagagacc gaggggtctct tgttgtgaa 349

<210> 8109  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 8109  
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 tagtggactg agctaagata gtctatttct tttacttcca agaaatagcc ccaccagcta 120  
 tgctaaatat atagctgttg gttgctttgg aatcatctga aagagtgttc caatctgcat 180  
 cgctgtatcc ttcaagtaca acgggaaacc ttttataatg taatccaagg cttatgggtc 240  
 ttttaaggta cctcattacc ctttcaatag cgtgctagtg ctccatacta ggtctactga 300  
 taaacctgca taataatccc acaactaggc tatgttggat ctagtacaat c 351

<210> 8110  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 8110  
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 ggataaaggt agtgttgcca tgttttcaaa gcctgtacta aggcatacaa ctcttatca 120  
 taagttgaat agttaagggt aggaccactt aacttttcac taaaataagc aattggatgg 180  
 cttctttgca tcaacacagc cccaatccca acatttgaag catcacactc aatttcaaaa 240  
 gatttttgaa agtttggcaa cacaagtatg ggggcattag ttagcttttg cttaagaaca 300  
 ttgaaagctt cttcttgttt ctctcccat ttgaaaccaa catttttctt gagcacttc 359

<210> 8111  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 8111

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taaaaagtta tcgtcggatg aatttgctca gagcttcaga attcaatttc gatcgtctcg 120  
atatattacg ggactcaatc agacatctga gtaaaaaagt tattgtcgtt tgaatttgct 180  
gagagcttca acattcaatt tcgagcgtct cgatgtatga cgggactcaa tcagacatcc 240  
gaataaaaag ctattgtcgt tcgaattagc tccgagcttc agaattcaat ggcgagcgtc 300  
tcaa 304

<210> 8112  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 8112

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gaagctcttg agcaattcaa atgatcataa cttttcacta ggatgtccga ttcaggcgca 120  
taagatatcg agatgttcga aattgaacaa cggaatcttt tgagcaattc atatggtcaa 180  
agcttttcac tcggatgtcc gattcaggcg cataatatat cgagaagttc gaaattgaac 240  
aatggaagct cttgagcaat tcaaattgat ataactttta actcggatgt ccgattcagg 300  
cgcataatat atcgagacat tcgaaattga acaatggaag ctcttg 346

<210> 8113  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 8113

agcttccatt gttcaatttc gttcgtctcg atatcttatg cgctgaatc tgacctcgt 60  
gtgaaaagtt atgaccatct gaatttctcg agagcttccg ttgttcaatt ttgagcgtct 120  
tgatatatta tacgcctgaa tcggacctcc gagtgaacaa ttatgaccat ttaaatttct 180  
cgagagcttc cgctgttcaa tttcgagcgt ctctatatgt gatgcgcta aatctgacct 240  
ccgtgtgaaa agttatgacc atttgaattt ctcgagagcc ttcgctgttc atttcgagcg 300  
gcttcatata ttatgcgc 318



<210> 8114  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 8114

tgtaccaatt aaccgtgcat atgccatgca ttatcgcac tcataacaca atgatatttt 60  
 taaacaaata tgagaggatt aatggagaaa aatagtacta actagttctt acattttgat 120  
 attgctgttg ctgatcttgc atcgaatccg ataataaggg taagcatggg cacaaagatg 180  
 ccacccccac caacacctcc cacagtccca tatgctgac ctatgaatcc aatcatgctg 240  
 cccactatta ttttccacc aaatttcac tctacaacc aaaaacagaa gcattaatta 300  
 caaggaatt aatcccaatt caatgtcctt aattaatata caaacactaa t 351

<210> 8115  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 8115

ttggagtffc caagtgccaa ctcgttttct tctttattcc agtcttcttc tggcttcaat 60  
 tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180  
 tcatagtgc ttccatcgag aattggtggt ctgttactg gtccgccttc tttctccatg 240  
 ttcacagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc 300  
 aattgaaatt ctgataccag gggacagatg tcgtaccgga tgtcacgaca tcacgct 357

<210> 8116  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 8116

agcttgtgga gaccgtccta gatttttaaag cccccatt gagtatgctg cattctgctg 60  
 atgaatttgc agtaataaca aacatcactt cattgtgcat taagatttac tttgaacttt 120  
 ccttcttgac ctattatgtg tgcaactata tataatgatt tatgatctgt aatatttacg 180  
 ttgatttggg gcataatcaa tatcgcaatt tccaaggctt gacttgctg atgcaaatct 240

caacaaggac tgaagat ttt attgttgaca ctttgaaact tcacagttct attgggccct 300  
 atatgagga agtcttcaag gacctttcca atagaaaagt tagtggcaca tgattg 356

<210> 8117  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 8117

tccatcaata actcatctag acgctctata tgtgaacaac ggaagctctc gagaaatttg 60  
 aatggtcata aaatttcact caaatgtacg attcggggac ataatatatc gagacgctcg 120  
 aaattgaaca acggaagcta tctagaaatt cgaatagtcc taacttttca cacagaagac 180  
 agattcgggg acataatata tcgagacact cgaaattgaa caacggaacc tctcgagaaa 240  
 ttcgaatggt catatctctt cacacagatg tccgattcag ggacataata tatcgagaag 300  
 ttcgaaattg aacaacggaa gctctcgaca aattcgaatg gtcataacat ttcactc 357

<210> 8118  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 8118

tgcttctaga gttgttttgt tctttaatcg gccatctggg tgaaaagtta tgaccagtcg 60  
 aatttgttga gagcttctct tgtttaattg ggagcatctc gataaactat tttgcccaat 120  
 cggacatccg cgtgaaaatt tatgaccatt cgaatttttc tagaggcttc gttgtttaat 180  
 ttcgagcatc tcgatttatt atgtactcga atagaacatc ttagtgaaat ggtatggcca 240  
 ttctaatttc ttgatagttt tcggatcatca atttcgagcg tttagaagag ttatg 295

<210> 8119  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 8119

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 aagggtttgt tgtttgaatt ttctaagagg ttatgatttc aattttgagc gtctcgatat 120

attacgagac tcaatcaggc atccgagtaa aaagttattg tcgtagatt tttcttagag 180  
 cttctatttc cgattatgag cgtctcgata tattacgaga ttcattcgga catccgagta 240  
 aaaagttatt gtcgtttgat tttgctcaaa gcttctgtta tgaatttcga gtgtctcgat 300  
 atactacggg acacaatcgg acatccgagt aaaaagttat tgaca 345

<210> 8120  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8120

gcaactatnc gncctggca caattgtcag aattattcta aacctgcang gttctttaag 60  
 ctaaccaatt ccaaacaagg tcatattcca tcgacttttt tggttattca aggcattgcat 120  
 tgatgcattc gcattttgta aaccattgt gcaaactgat ggaacatggc tttatggaca 180  
 atacaaaggg aactgttaa ttgcagttgc acaagatggg gctaacaaca tatttccatt 240  
 agcatttgcc attgtcgagg gtgagacagc agatggttga cactttttgt tgcaaaactt 300  
 gaaaaccac gtcacaccat aacatggtat atgcttaatc tctggtagac atgagtcaat 360  
 ccaaatgca tacagacgac ttgacagtgg gtggacaaca aacaactcat taca 414

<210> 8121  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8121

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 ggccacctct attccoctta ctaaaatctt atgccccagc attattcctt cctgaacct 120  
 gaaatggcat ttctcccaat tgagaactag attggactct tcacatctct gtaatactct 180  
 ntcaagggtt gatatgcacc cctcaaaaga tggcccaaaa atagagaaat catccatgaa 240  
 aacttcaatg catntttcca cctaatacga aaaaattgca atcatacact gctgaaatgt 300  
 aactggggca 310

<210> 8122  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 8122

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 agcatcattt atggcactaa actgttgagg gttggaagcc atcttctcaa ttaaatttct 120  
 ggcttcagca ggggtcatgt ctccaagggc tccaccactg gcagcatcta tcatacttct 180  
 ctccatgtta ctgagtcctt cataaaaata ttggagaaga agctgctcag aaatctggtg 240  
 gtgagggcaa ctggcacata gtttttttaa tctctcccat tattcatata ggctctctcc 300  
 actgagttgc ataatgcctg aaatatcctt tctgatggtc gtggtcctgg aagcagggaa 360  
 atttttttct aagaatactc tcttgaggtc atcccagcta atgatg 406

<210> 8123  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 8123

cctctaccac tagtcttaat ctttggcatg ctaggttatg acatccta at gatcatgtaa 60  
 tgaaaattgt tctcaaacag tgtaatat tctcaactgaa taaaaacatc accgagtttt 120  
 gttcttcttg ttggatgggt aaagctcata ggttaccctc tcacagctca acaggcttcc 180  
 cactccctct ctcaagtttg ttgttccttt tgttcctttg attaataaag agtctgatta 240  
 tcattttctt aaaactgtta cgtgtgcctg ttttccttta cttaaagccat atcatacaca 300  
 caagctc 307

<210> 8124  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8124

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 aatgtgccat caaatgtaca aaatactatt actaatatta tgggtgcaga atgtctatgc 120

atggggaagt atcttggaat tccatcggtta gttgggtccaa gtaaaagggc ggtgtttggg 180  
cacgtaaagg acaagggttg gaagcgtatt caatcatggg agggccattg gctctctagt 240  
gcaggaaatg aggttatgat caagcgtgtc cttcaggcta ttccaacata ttatatatcc 300  
atctatttgc ttcctgatag cctcgcagat gagatacata tattgctaaa ttg 353

<210> 8125  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 8125

cctaacgcct tgttcaaact ctctataac ctttatgtga atctaggatc tctatcagac 60  
actatggttg acgacacatc atgtcatctg acaatctcac taatgtataa cgagggtcaac 120  
ttctctaagg aaaacctaatt attgatgggg ataaagtgtg cagatttatt gaatctgtca 180  
acaataaccc aaatagaatc aaaaccttta cgggtcctaa gtagtcctac aacgaaatcc 240  
atggagatat tgttccactt ctacacgggt atctctaacg gttgtaactt acctaaaggt 300  
ctctgatgtt ctatcttagc cttctagtag actaaacacg catacataaa cttattaacc 360  
tctgtcttca tg 372

<210> 8126  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 8126

agcttctgtc cctgagaaac tggttccctt attacaattg ggagtgaaga ttgctgaaaa 60  
ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
tatgggtgagt agcattttga aagaagcctc tgtgcctgaa gctgatgaag atgttccaac 180  
atcttccacc ccgaatgttt ctatgcctga tgttgagaaa gatgttccaa catcttccgg 240  
cccaaagat gaagtactct cttccccag caaagagaga tcaacagagg aagatgatca 300  
agccgcagag gagaccctg caccaagggc accaaaacct gctccagggtg acctcattga- 360  
cttagaagaa gtcgaatctg atg 383

<210> 8127

<211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8127

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agctagaagg tgnntagctt accatctatt cttattatag aaccggtagt gtgtctacta 60
tcattgtcgt cttttttttt tcgtcattga ggtgccactt gagctgccac gtctctccac 120
ctttgggcgt attcttttga aagatttgtg cccctttttt gcacatgttc tgtagttgca 180
tcctatccga agacattata ctgacactgc ctaatgaagg caatcactag gtccttccaa 240
gaatcgactc gggaagggtc caagttagtg taccaggtaa caactacccc agttagactt 300
tcttgaagg aatgtatcaa caattcctca tcttttgtga tgcccccatc ttccgacaat 360
acatctttag atggctcttg gggcaagtaa tccccctg 398
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<210> 8128  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 8128

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acctgttaga caaatggcct cagttatctt aagatggggg gttgaattaa gatacaaaga 60
ctattcctca attaaaattt cgctctctct ttttagatta acattgcacc cttaacatga 120
attactcaaa agacaattca gaataaactt ctttaaagca aaagataaat ggcaataatt 180
aaaagaagtt taagggaaga gagaaatgca aactgattta tactggttcg gccacttccc 240
gtgcctacgt ccagtcctca agcaaccac ttgagatatt tcaactctctt tgtaaaactc 300
cttttcaaaa gtttgaacca cacagggaca ac 332
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<210> 8129  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8129

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agcttcaaca tcagaccact tccagggtgt tggaactttt ttcattggact ngatggggcc 60
tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120
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cagatttacc tgngtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180  
 gttgagtctc atacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgacca 240  
 tggcagagag tttgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300  
 tgagttctct gcagccatca caccacaaca aaatggcata attgaaagga aaaac 355

<210> 8130  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8130

ctcaagcatg gaaagaagac agnatatacc ttacaccgaa gattnctttt agctntttta 60  
 tcttatcgac aatggaaaaa agcttttaat ggaagtcagg agaatgaagg ccccccgaa 120  
 gcattaactg gaaaccaagt tcatgatcgc gtaaaggaca ttgtaaccgt gtttggcaag 180  
 tcccagaaga agacatcatc tcccaaaaac atgtggaaga aacgctcaat attctttgat 240  
 ctttcatact ggtctgatct atatgtgcgt cactgtctag atgttatgca tgtggagaaa 300  
 aaagtgtgtg atagtttaat tgggtactctt c 331

<210> 8131  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8131

agcttgataa gaattntggt tgtaatactt gtcattattc taaacataaa agacttccat 60  
 ttcccaccag taactcacat gcatcgaata gtttttaact ttacatata gatatatggg 120  
 gaccttggtc aaagggttca atgctaggac attgatactt tetaaccata gtagatgatt 180  
 attcacgttt tacttggata tttctaatagc atgtcaaagc tgaaacacga gaacatatca 240  
 aagcctttat agctcttggt gaaactcaat ttgac 275

<210> 8132  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 8132

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ttttgctgca actccatggg tgaaaatcac cattaaagga ccttattgaa gctcaaagat 120  
ccaacctcca tagaagcttc tcaagcaagc ttccatcaag attctactat tcgcattgca 180  
tggttatoga actttggggtc gtacttctac tgggggaacc ctattctctn tgggtgatga 240  
gatggaagtt gtgctccctt ttaaggtaga gattccttct ttgagaattc tagcagaatc 300  
agggttggga gaagcagaat gggccagaca tgttttgact agttgaatct tatcgaggga 360  
aaaagaatgg ctgccatgag tcatgggtgg ctatatc 397

<210> 8133  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 8133

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tcgtcagaag ggggggttga attaatatat cccaaactgt ttcccctaata taaaaatcta 120  
tttacttttt tactcaagtt attaattccc ttaatgacaa tcttcttaaa tattaattca 180  
aatgaagcaa cttgaatatg aatataaagc actaatcaat aaaggagatt aacggaagag 240  
aaaatgcaaa ctcagtttta tactgggttc gccacacct tgtgcctacg ttcagtcccc 300  
aagcaaccgg cttgagagtt ccactatctt gtaaattcct tttacaagtt ctaaacaca 359

<210> 8134  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 8134

agcttcctta agattattcc taattaagct agagcttagc tacacatacc tctctaatag 60  
ctaagctcac ctcccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120  
aagctcacc ccatgacaaa aaacatgaaa ataataaaaa aaaagtcctt attacaaaga 180  
caactcaaaa tgccccgaaa tacaaggcta aaaccctata ctactagaat ggccaaaata 240  
caaggcctag acgaaggaaa aacctattct aatatttaca aagataagcg ggctcact 300



tagcccatgg gctcgaaatc taccctaagg ctcatgagaa ccctagggcc tttccttgga 360  
tctctagccc aatctacttg gagtcttcta gc 392

<210> 8135  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 8135  
aacttctgcg gggacatctt gacttgcttt tcaatctgtc atttaccaca aaatctgcct 60  
tcttttattt tcagattggg aatgcctatt acagcacctt tgtcaatgat tttcttcatg 120  
cctcttacga gcagatgtcc aaatcgttga tgccatattc tgacttcatt ttctttggac 180  
gacatacatg tggaggagta actggtttct ttaggtgtcc atacgtaaca ctggatcttt 240  
gatctgctgc cct 253

<210> 8136  
<211> 227  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8136

agctgtggag tttccaagcg ccaatacgtt ttcattcttta ttccagncaa cagatggctt 60  
gaatccatca gcgggctttc cttctgagtc cagcatcttg ggatgtacct agcctttgaa 120  
gacaggtttc caagttctgc tatccagtga tttgaggagg gccaccatcc ttgctttgca 180  
gtatgtctag taggttccat ccagaattgg aggcctgttc actggtc 227

<210> 8137  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 8137  
tataaaactc aagcttttgt gaaaggaaga agatgatgaa agatgagtat gataataatt 60  
gtaaaggctt aaaggtttct caaaagttgt tcaagaagtt gttaaaaatg caagtcaagg 120  
tcttgctttt atagactctt catgtctggt caagaaaacc attggaagag ttataacctt 180

gagaaaatca tgtcaagagt tacatctctt gaccttttat tcaaaaacttg tcaactggtaa 240  
 ttgattacca taatcatgta atcgattaca caatgcattt taagaaaaga tgtgactctt 300  
 cacaattgaa tctgaatttc aacattcaga tacactggta atcgattacc aatatattgt 360  
 aatcgattac accatttaaa aatcatttga atgttgcaaa ttcaattaaa agctttttga 420  
 a 421

<210> 8138  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8138

cttggagttt ccaagtgcc aatcgtcttc ttcttttagtt cagtcttctt ctggcttcaa 60  
 ttcatcagtg ggctttcctt ctgtgtccag catcttggga tgttcccagc ctttgatgac 120  
 agctttccag gttctgctat ccagtgattt gaggaaggcc accatccttg ctttccagta 180  
 ttcatagttg gttccatcta ngattggtgg tctgttcaact ggtcctcctt ctttctccat 240  
 gttcatcaga atttatctcc ctagatctca ctctgtgatt tcgagtgttg gctctgatac 300  
 caattganat tctgatacca ggggacagat gtcgtaccgg atgtcacgac atcacgcctc 360  
 agaacatgca gattatatgt gt 382

<210> 8139  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 8139

ccttgcaagc tccaaacacc ccatttgaaa atctttctgg attaaacttt tgatcatcag 60  
 gccccagag ttgaggggtct tgttgagca ctgagattgg aatctgaata ttcattcctt 120  
 ttggaattag gatgcctttt aaattaacac cttggagagc tgttctaaca acaaaggctg 180  
 ctggcgaata aagcctcaaa gtctcttgaa tcaccatggg caactgcaag tgtaacattt 240  
 ttatatatgg ccttcacaga tcagtaagaa tgctcatgaa actgggaaat gatcaactat 300  
 aattacaata aaatttgagg cacacaaaaa tcagaaaaag cttgttggtta aatgtacctt 360  
 acatgctg 368

<210> 8140  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8140

agctccttca ctccttgact caaaacgcat tgaatgaata atttcacact ccacaggctc 60  
 agaatactaa tgcccactca gacttcacta ttcacaacaa caccatcctg cagcaaggca 120  
 aaatttggct gtccttgggt catgaatnca taccacatt atgggaagaa ttcataaaaa 180  
 cttctgtagg gggccataca tgagttgcta agacacttca ccacttgcaa gataatctac 240  
 aatggtctta tatgcgccac gatgtacgcc agtatgtggc aactatgac atctatccac 300  
 atacaaagga agagactcat agaccaactg gcttactgca acctttccct attccaataa 360  
 caatgtggga aaatctctct ttatactgca ttactggcgt accacctt 408

<210> 8141  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 8141

agctggtacc tccttcttac tacattttaa tactggtttg agtcttctct gtggctatct 60  
 tacaggttta gcccacacct ctaaatttat ccgatgcata catgttgatg ggctaatacc 120  
 aggaatgtcg gccagggtcc agcctatagc cttcttatgc ttcttgagaa ctgataacaa 180  
 cttctcctct tgctcatcag caaggagggc agatataatt actggaaaac ttttactatc 240  
 atccaagtaa gcatatttta aatttgatgg cagaggcttc aaatctggtg tgggcggctg 300  
 gataatggta gaaag 315

<210> 8142  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8142

taagcacctg ccgcatgcag cggcaacaaa gttttcctna cttgagagaa gcccgcggtc 60

gantcatata aacctcctcc tctagatcac cattaagaaa agttgccttc acatccattt 120  
 gttgcaactc aaggattgaa tgaccaacta atgccaaaat aataaaaaga gaatctttct 180  
 tagatactgg agaaaaagtc ggtatgtagt ccaatccttt tttttgagta aataccttat 240  
 ccacaagtct tgccttgtat ctcaaatga tgcctaata atcccttttg gtcttaaaga 300  
 cccatctata gtcaatggcc ttgccccat taagcaactt ta 342

<210> 8143  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8143

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 gaattctttt tgcggctttt agatgacgag aggtaggagc ctccgtaaag cgacacacaa 120  
 cttccaccgc atatagaata tcgggccttg tattggttag ataccttaaa ctccccacaa 180  
 gactcttgaa gaccatggag tctaccttct ctcccttcac aaactttgat aacttcaagc 240  
 caccttccat acgtgtgttc acgggattgc aatctagcat actaaatttc ttcaacactt 300  
 cttttgtgta acttccttgt gagacaaaga taccattctc cattngcttc acttccattc 360  
 ccagtaatat gacatgagtc ccatatctat catatcaaat tcacgaga 408

<210> 8144  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<400> 8144

agctgtacaa atgaacaatt ctggagatt catgcctcta ccgccgcaca aaacagctat 60  
 cggatgtcgc tggatatata agatcaaata tcgagccgat ggggtccatat aaagatacaa 120  
 ggcacgcctg tgtgccaagg gttacactca aacggagggg ttggactacc ttgacacctt 180  
 ttcttcggta gcaaaactca cctccgt 207

<210> 8145  
 <211> 386  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8145

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gtctctctta atttgaggca cataagtaaa gcgcaaacaat ccaaatactt taaaaaattt 120  
caagaagggt ttataaccat accaagcctc aaaaggagtc ttctcatcta ctgcttttgg 180  
gggaagtcta tttatcaaaa atactgcagt gttttagctc ttgcaccaat atgccttagg 240  
taactctttc tcatgaaaca tacatctgac catttccaag attgtttgat tctttctttc 300  
actaacccca tnttgtttaa aggtgtaaga agctgttaat tgatgttcaa tgtctgcttc 360  
ctcacaaaac atgatgagtt atgctg 386

<210> 8146

<211> 331

<212> DNA

<213> Glycine max

<400> 8146

cgctgaatc agacatacga gtgaaaagtt atgaccatgt gaattgtttg agagctttct 60  
acggataaat ttgagcgact cgatgtatta tacgcctgaa tggaagctca tcgtaaaaag 120  
ttatgaccat ttgaatgtct tgagagcatc cgttgttcat tttttagcac ctctatatgt 180  
gatgaacctt aatcggacct acgtgtgaaa agctatgacc atttgaagtt ctcgagagct 240  
tccatcgttg aacttagagc gtctctatat attatacgcc cgaatcggac atccgcggga 300  
aacgctatga ctatctgaat ctctcgagag c 331

<210> 8147

<211> 397

<212> DNA

<213> Glycine max

<400> 8147

agtgcctgta tattgatgcg cctgaatccg acatccgagt gaaaagttat gaccatttga 60  
atttctcgag agcttcttat gtttaatttt gagcgtctcg atatattata cgctgaatc 120  
ggacctcagt gtgaaaagtt atgaccattt gaatttcttg agagcatccg atgatcattt 180  
tcgagcgtct ctatatgtga tgaaccttaa tcggacctcc gtgtgaaaag ttatgaccat 240

ttgaatttct cgagagcttc cgttggtcaa tttcgagcgt ctgacatat tatgcgcccg 300  
aatcggacat ccatgggaaa agctatgacc atttgaattt ctgagagct tccagtgttc 360  
aatttcgagc gtctcgacat atgatgcgcc cgaatcg 397

<210> 8148  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 8148

tgacaggcag gtgcacatgt ctgcaatgta tttggctttt caagtggaca gtgctactac 60  
tttttgcttc ttggaactct aggatatggg agaccctaac aacagggtgaa cttatcccac 120  
gatgctcctt ttgtctacta gatcaccaca cctgtcagaa tcatagtagg ctacaagggtg 180  
taggctatca tctcccttag tatgatgagg aaacaaaatg ccatattcga gtgtccctct 240  
cagatacctc atgattcttt tagctacaat caagtgtggg tgtcttggat cactcataaa 300  
tctgtgacc aagccaacac tgaagccac ttctggccta ctgtgacaga taaactcagg 360  
ctaccaacaa tctacctaaa cat 383

<210> 8149  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8149

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aagagaattc aacaactccc ccaccttcat tgaatcaaag atccttggat tctttgattg 120  
ccacaataat gtgattaaaa gaggagtcaa tgttctcaac accttgccaa caatttgttg 180  
gtctaacaac acttcattgc aggctttcat tgaattgatt aatgtttgga tttagttgaa 240  
ataattaaca atggactctt gatcactcat tgacaataat tcatattgtc ttcaaagatc 300  
ttgaagcttc accttnttgg ttttggttgc acctccataa gctttgttca agatgtccca 360  
agcttctttt attatcatag cctttgaagt ttttccaaaa tttgcaacat 410

<210> 8150

<211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8150

agcttgtagg gttaaagtct tacgatngta cgtgctcatg caacaattgt tagccggggc 60  
 tatacaagac atcttgccaa acaaagtcag gttcaccata actcgctat gctttttctt 120  
 ccatgctata tgtagcaaag tgattgatcc attaatgttt gatgagttgg aaaatgaggc 180  
 cgcaattata ctgtgccagg tggagatgta ttttccccct gctttctttg acatcatgat 240  
 tcacttgatt gtgcatctgg tcagagaaat caaatgctgt ggtcctgggt atctacgggtg 300  
 gatgtacccg ggtgagcgat acatg 325

<210> 8151  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8151

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 taatatatcg agacactcgt aatcggaac agaagctctg agcaaattca aacgacaata 120  
 acttcttact cggatgtccg attgaatccc gtaatatac gagacgctct taattgaaaa 180  
 tagcagctct gagcaaattc aaacggcaat aacttttaac tcgggtgtcc gattgtgtcc 240  
 cgtaatatat ggatacgctc ggaattgaaa acagaagctc tgagcaaatt caaacgacaa 300  
 taacttctta ctogaatgtc cgattgagtc ccacaacata tcgagacgct cgtaattgaa 360  
 agcaaagctt tatcaaaatc aaacgacata acttttgact c 401

<210> 8152  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 8152

ttagcttcag atgatgcaga tgggtttgta gctacctcat gcaactctct aatgtttatg 60  
 gcatcatttc tggcgctaaa ctgctgggag ttggaagcca tcttctcaat taaatttctg 120

gcttgagcag gagtcatgtc tccaagggct ccaccactgg cagcatctat catacttctc 180  
tccatattac tgagtccttc ataaaaatat tggagaagaa gttgctctga aatctgatgg 240  
tgggggcaac tggcacatag tttcttaa atctctcagt actcatatag gctctctcca 300  
ctgagttttc taatacctga gatatccttc ctgatggctg tggtcctaga agcagggaaa 360  
tttttttcta agaatactct cttaaagtca tcccagctcg tgat 404

<210> 8153  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8153

agcttggAAC aattgattac tgtgtgtatt ttntcctcgn cagataactt gagcttataa 60  
gcaacaggac caattctttc aataaacttg aatgggccat agaatcgttt ggcaagtttg 120  
gcggaagctg atgaagttcc cttggtagaa gactgtcgat agggtcgtaa ccggagaaga 180  
acccaatcgc ccacctgata attcacctcc tgacgcttgt gatcagcttg cttcttcac 240  
tggctctgtg cctttagtaa tttcttgca atggtttgaa aagtagcgtc tctatcagtt 300  
aacaagtcct caacagcttc aatggttgac gtg 333

<210> 8154  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8154

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aactctcgta aatgggagag aaatgttcat cttaaagcata caagtcccta atgttacaa 120  
atcctaaagt ttgagtcctt agggagcaaa acaatgtgtg tctcctagag agggcatcaa 180  
ctaccatatt ttcttttccc tttttgtatt tgataacata tggaaattgc tctatgtact 240  
ctaccatttt tgcattgcctt ttgtttaact tgctttgcc tctaattgtac ataagtgagt 300  
gatgatcact atgaatgaca aattccttgg aaacaaggta atgttcccaa gttcggaggg 360  
ctcttat 367



<210> 8155  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 8155

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aagctccttc aactgcacaa ggctcttaat atttgattat ttccttgtgg aaccttcacc 60
cgtcgaagac actgacaaaa acttatcttc tccttttttg aaaaagtatg acaagctggg 120
ggcaagtaaa ttttcttccc atcagacctt ggatgcaact gtgatcgtat ccccatctca 180
gctagatctt gacgggtatt caagccattc ttcaccttgc cttgaatgtt aaagagcatt 240
ccaatcacac tgtcacatac atttttctcc acatgcataa catcaataca atgtctaata 300
tctatatcag accagtacaa aagatcaaag aaaatggacc tcttcttcca tatgcaagtc 360
ttacttttat cctttgtttg gggttttcca aatacagtat 400
```

<210> 8156  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 8156

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agctataaac agacattgct tcatcttagt cgccattgac tacttcacca aatgggtcga 60
agcagcttca tacgctagtg tgactgggag catggagatt agattcatca gaaatgagat 120
aattttccga tatgggttgc ccaggaaaat tatcacgat aatgccacca atctgaacaa 180
taagatgatg aagaagatgt gtgaggatta caaaatccaa caccataatt ctatgcctta 240
taggcctaag atgaatgggt tagttaaggc tgctaataaa aatatcaaga agatagttca 300
gaagatgact gtgtcataca aggattagca cgagatgctc cccttttcat tgcattggtta 360
tcgaacttcg gtgcacatg 379
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<210> 8157  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8157

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tggatatgcy agacatcttg ccgaacaaag tcgggttagt cataactcgc ctgtgctttt 60
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tcttccatgc tatatgtagc aaagtcattg atcctatcaa gtttgatgag ctggaaaata 120  
atgtcacaaat tatactatgc cagttcgaga tgtattttcc cncctgctttc tttgacatca 180  
tgattcactt gattgtgcat gtggaagag aaatcaaag ttgtggtact gtctatctac 240  
cgtggatgta cctgggtgag ccatacatga agatcttaaa acggtgtaca aagaatctat 300  
a 301

<210> 8158  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 8158

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acaataacat catttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa 120  
ttcctagctt cagcaggggt catatcacca agagctccac cactggcagc atcaatcata 180  
ctcctctcca tgttgctaag tccctcatag aaatattgaa gaaggagttg ctcaaaaac 240  
tggttgtgag gacagcttgc acacaatttc ttgaatcttt ccaggtactc atacaagctc 300  
tctccactaa gttgcctgat gcttgaaatg tcttttctga tggcagtggt cctagatgca 360  
aggaagaatt tctccaagaa caccctctta aggtcatccc aactggtaat 410

<210> 8159  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8159

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tcttaagaag gggggggtga attaagatat cccaaactgt tccccctaata taaaaatcta 120  
tttcaacttt tactcaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180  
aatgaagcaa cttgaatatg aatataaagc aataataaat aaaggagatt aaaggaagag 240  
aaaatgcaaa ctcaagtttta tactgggttcg gccacacct tgtgcctacg tncagtcccc 300  
aagcaacccg cttgagagtt ccactatctt gtaaatcctt ttacagttct aacacac 357

<210> 8160  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 8160

agcttttaggc gaccaacttt gatatacagtt ttgttaaatta agtcacatac gttaactaaa 60  
 agatcccaca aatcactatt ttcttttaaag tagaaaatcc tttctcaatt tacgttttaa 120  
 gcttcattgt atgttaggct gacattgaat tgggtgctcat agaataattaa ttagaatatt 180  
 ttaaaaaaat tattatataa atcacgagac attataaaaa aaattatgat taacatagat 240  
 tttcatcttt caataaaaat atttagactc taattttttt aatcgatatc cttaaaataa 300  
 taatggtgag ttgtatttta ataaaaagat 330

<210> 8161  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8161

tagccctaga aggggatgga ccttttatgt tttggagatg atcaataaca atgcctatag 60  
 gttggacctc ccagaagagt atggagtcag caccactttt aacatttctg atttaattcc 120  
 ttttgcaggt ggagctgata ttgaggagga ggaactaaca gatttgaggt caaatcctct 180  
 tcaaggggaa ggggatgatg caatcctccc taggaaggga ccagtcacta gagccatgag 240  
 taagaggctc caagaggctt gggctagagc tgctgaagaa ggccctangg ttctcatgaa 300  
 cctcangata gatttctgag cccatgggcc aagggtgggt ccaattatct ttgtacatat 360  
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<210> 8162  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8162

ntacaacaaa tagttgagaa aaaccttaaa accccatttt ttccaactat gcaactaana 60

cattcaaagc tttacaaagt ccataactaat gtctacctaa ggtgtagatg ggatgggtaa 120  
 ggggtgtgtat agcccatgag gcatcacccct aaacttggct tgtaaacaag ccacacacat 180  
 agtgcaatgc ttatggacac tnttcttcat atggggccaa taaaactttt ctttgagtaa 240  
 gacaagggtc ttgtctatcc caaagtggcc catgagccca cccttatggc tctctntcac 300  
 aagtaatttc ctaatggatc cttgnggtat gcaaagcttt ccctctctga acaaataccc 360  
 ctcagccaaa tagaatccat ctcgggcctt tttcccaaaa ctctcg 406

<210> 8163  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8163

ttgcatgcta nagegccact tgacgcggtg cgccaaattc aaacgctggt gctgttggtg 60  
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 gcttatcctt caatcactct ataaccatga taacaaaaat taaagggttat tgagctgttt 180  
 aaagatattg attaagaaat ttaaattaca aatattttaat ttaaatatgt tgcttatact 240  
 ttgaaaatat attattttta aattattatt ttaaatttat tcttgattat cttaaatttt 300  
 ggttatatct taacttagca gtttattgtc aacgtaataa tctaattatt aacattctgc 360  
 actattcttt aatatttaaa ttatttaaaa at 392

<210> 8164  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8164

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 tttttagata ctacaaatgg ttctaccgga tttccagaca tcagaaaaat aaatggaaat 120  
 tctgtaattg aattagtttag tatgccaca aagataactg gtgtacatta tgtgcagggtg 180  
 agttgttgaa ctatatgact agtttcagaa gaaagtcagc tttcacattt gatacagttt 240  
 cttatttggt ctcttatatt ttaaaataac accagcttct aatgaagtag cttctaagtt 300

ctctaccttt ttgtatttaa atactatcta ottacaaagg gccctttaag ttagtgaact 360  
tccagctctg tcctcttgat atgccgaaga atta 394

<210> 8165  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8165

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ctatacgaga catcttgcca aacaaagtca ggttcacgat aacttgccctg tgctttttct 120  
tccatgctat gtgtagcaaa gtgattgatc cagtaatggt tgatgagttg gaaaacgaga 180  
ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgtcg tggctcctggt tatctacggg 300  
ggatgtaccc gggttgagcga tacatgaaga tcttaaaaga gtatacaaag aatctatatc 360  
atccgaaagc atctattggt gagaggtaca ttgcagaaga agccattgaa ttttgttcag 420  
aatactt 427

<210> 8166  
<211> 431  
<212> DNA  
<213> Glycine max  
  
<400> 8166

agcttcttcc tcgaaccaac tcgccgacat cttcaccttt tgcttgtctc cagtagtttt 60  
tcaaggctctc tgcaacaagc tgggaatgat gaatatatcat tcccagcttg cgggggggctc 120  
ttagcagcat cacaagagtt agttagaata gttagttagt tagctagtat ggctaggttt 180  
ctgttgtaac caactatcaa gcatattcca tcttgataa attctctgct atcattcaat 240  
aaagcttcga gatgttattc tgatcatatg atacattcac gttgctcatt tctgctatat 300  
ggctgaattt acttctaata tataattaaa attaatactc ccattaattg attaaaataa 360  
tcatcaatta cagattgtcg agtttaggta aagattatta aaaatatggc agttgttacc 420  
aaattatcaa t 431

<210> 8167  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 8167

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ccttggggaa gcattaggcc tgcacatctt ccatgtgtta tgatgatgcc accaacaaaa 60
cgtgtactaa ttgcccatga tgtctgcaa acatattccc ttaaccatt atcgtctgtg 120
aactgcacaa gcacacattt tgagcaactg catcctcatc aaaaggatta tattaatatt 180
taaaaatata tatatataaa aaaaacagta catcagacct gtgttccaaa ggcacgggca 240
aagttttgcc caagggtatg actgggtcct gcttgtaatg ctttcttgtc acccatcata 300
gcctcaattg tataggctctt acaagcacca gcaaatgttt ccactttaga tattcgacct 360
gtaacaacag gtattgcagc ttgctcataa gcaaatctgg tatagatgtc aatcatctgt 420
atagcctg 428
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<210> 8168  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8168

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ccttttgaag ttgtttatgg ttntaaccba ctaactcctc ttgatctttt gcctatgcct 120
aatgtttctg tttttaagca taaagaatgt caagcaaagg cggactatgt gaagaagctt 180
catgagagag tcaaagatca aattgagagg aaaaataaaa gctatgctaa acaagccaac 240
aaaggggagaa agaaggttgt cttctaaccg ggagattgtg tttgggtgca catgaganaa 300
gaaagggttt cggacaaaag gaaatcanag ctcaaccagc gggagatgga ccatttaagt 360
gcttgaaaga ataatgacaa tgc 383
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<210> 8169  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 8169

agcttctaga tgagttatgt ctgcgaatct gacatcctgt gaaaagtat gaccatgtga 60  
 atttctcgag cgcttccgtt gtttaatttc aagcgtctcg atattttatg tcttcaaatac 120  
 agacatcgga gcgaaatgat atgaccattc gaatttgctg agagcttccg tttttcaatt 180  
 tcgagcgtct agatgagtta tgtcaccgaa tcagacatct gaggtaaagtg ttatgaccat 240  
 tcgaatttgt cgagagcttc cgatgctcaa tttcgagcgt ttagatgagt aaggtcaccg 300  
 aatcgacat cctgtgaaaa agatatgacc attctgtttt gtcgagagct tccgttgtca 360  
 atttcgagcg tc 372

<210> 8170  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 8170  
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 accgattacc ttctcaatct gtccaaaatac ccaaaaatgt gagggtgatt gcattgaggt 120  
 cgggaaagca gtgtcaaaga cctcaaccag tagcatcttg ctcatccgca aatgaacctg 180  
 cccaacttca ctctactcca gaaaaagatg atgacaaaaa tttaacgagt aagttaccta 240  
 acaatttata tgcagggtgaa tctttcactg gtaattctga tttacagaag cagcatatcc 300  
 ctctttcatt cctccaaga gcaattttca acaaaaaaat ggaagaggca gagaaggaga 360  
 tcttggaac atttagaaaa gtagagggtg acatacctct gctggatgca ataaagcata 420  
 ttccagatat gc 432

<210> 8171  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8171

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 aattcacaag acaatcgcta ttgactcgga ggtccgattg agaccgtca tatatctaga 120  
 cgctcgttat agataacaga ggctctgac agactcaaac gacaataact nttgactcgg 180  
 gtgtccgatt gaggccgta atatatcgag acgctcgtaa ttgaaaacag aggcactgag 240

ccaattctaa cgacaataac tttttactcg gaggtccgat tgagagctgt aatatataga 300  
gacgctcgtc attgaatata gaagctctca gtcaattcta acgacaataa ctttttac 358

<210> 8172  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 8172

agctttgagc aaattcaatt gacaataatt ttgactcgg atgtccgatt gagtcctgta 60  
atatatcgag acactcgtaa ttggaaacag aagctctgag caaattccaa cgacaataac 120  
ttcttactcg gatgtccgat tgaatcccg aatatatcga gacgctatta atggaagata 180  
gcagctctga gcaaattcaa acggcgataa cttttaactc ggggtgccga ttgagtcccg 240  
taatatatgg atacgctcgt aattgaagac agaagctctg 280

<210> 8173  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8173

tatcatcact tattagcctt attagagata ttgattggt ggaccatatt aaacaatggt 60  
ttttgtgtat ttaattttcc aacaaatttt ctaactgagt caagatggta ttttatattc 120  
caaatttcaa gtaaaataaa aatatttgag cttccaagga tatatgatgg ctcatggctg 180  
ccacaaatat ttcattgetta acatctttat acatgaaaat attggttagca cataatggct 240  
tgagatctgt taggaacaac caccgtgagc tcatagcagt tgtttatctt taagtaaaca 300  
ttgtacttca tgctcttacc ttngctacac agtcaaggag tggactgagc ttgaacaccc 360  
taaccttttt cttcttgttg cttttattat ggcacaactg gtagttgtaa tgaagtaaag 420  
ttctctttct aatattggta ctct 444

<210> 8174  
<211> 364  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 8174

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cgttgcaaga ttcagatttg cccttcctac tccttcttca gtattaggcc ttcctgttgg 120  
aaaaaacata cttgctaggt ttaatttgga aaagattttc ctgatgttgc tctaatacta 180  
tatttaactt atcccggtga ataaaacacc ataaacttta aatacaagaa ttataataat 240  
aaagaaaaag agatgtaaaa ctattttata ttaactgtta agcaggggga aagatagcca 300  
aggagaggaa gttatgagat catatactcc aatcacgttg gattcagata ttggctactt 360  
cgag 364

<210> 8175  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 8175  
agcttatacct ctagggatcc ctacatatgt tcattttaat ctccaagcgt gagtaactca 60  
tcccttacct ctaagtgacc tcgctgtgac agtttggcag tgatagcaac gtctctagct 120  
aagattcctc aagtttttcc tctggttggt ctgcttggtt ttccaagcat tagagtgaac 180  
gagaatgaat tacaacttca atttcactgt ctccctgcga ggggaatttc tctttctact 240  
aatattattt cgaaaattcc aattgagtga atatgcgaaa atgagttccg aagggtggtat 300  
ccaaatttca ggataatcca acggttaagg agtctaggat cgtagtttta ctacaatggg 360  
tttggatgta tatgtgaaaa g 381

<210> 8176  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 8176  
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cttcattgatt tacattctcc ctttttttga tgatgacaac cacctatagg ttaggagcaa 120  
caacaaagaa aatatctatt tgcataatgt ttactcccc ttggttttac attgattgct 180  
tatatgagac aattgaagat ttcatatttt tcatatataa aaagttatct cataaaacaa 240

tagatatttt gcaataaact ctcttcaaga gaagaatatt acaataaaga tcatgtagga 300  
atccttatag attttgcaag tgtttggcca aggatttctt ttgagagagc atttgacaat 360  
gaagttcttt tggaatctct ctcatgtct tttgagagga taagacactt ttgtcaag 418

<210> 8177  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 8177

tcagttgccc attggcgtaa atgaggatgt taccgtcttt tatgactctg tggagaggca 60  
ggcagaggat gtaggaaagc tcgttgagcg cgtctttgag aaccacagag atgtcaggct 120  
ccataaaacc gttgggggtgg gaggtagaaa cgatggatat atgtgatctc ttggccatga 180  
atcacatgcc tccccacagg caacgataca gtgtgaagga acaatgtgct ctgaggatgt 240  
tggggtagga accgagggat ggggatatga cctctctacg gacatagtct aattcaggcc 300  
cagagccgtt cactttgatg gat 323

<210> 8178  
<211> 343  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8178

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aaagatacat ctgataagac ccataattat aacactcccc ctcaagctgg agcatatnaa 120  
ttatatgcac caagcttgga acatataaac tgaattctag gcccccttaa ggacttange 180  
aaaatatatg ctggctgagc atcggaattc atgaattcag agacagtctc tttatacagt 240  
aacttcttcc gaataaagtg acagccaatc tctatgtgct tggttctctc atggaagacc 300  
ggatntgaag caatatgcag agcagccaga ttatcacaat aca 343

<210> 8179  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 8179

agcttctcag atctgggtcat ggaaagactt gtcaactgcc ttcattagga agtaccaata 60  
caacacggat atggctcctg atcggaacca acttcagagc atgaccaaac gggaacatga 120  
gtccattaaa gaatatgctc aaaggtggag agacctagct gtccaagtca tcccacctat 180  
gacggacagg gaaatgatca caattatgat aaatacgttg cctacgttct actacgagaa 240  
gctgatagga tatatgccgg ctaactttgc aaacctcgtc tttgccggag aaagaatc 298

<210> 8180

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8180

tgagcacctt tttcctcact tcttccttca ttgatgggtt gagccttctc tacggttgta 60  
tgattggtct atagtctcct tccatcattt tcttgtgcat gtagttggca gggctgattc 120  
ctttaagatc taatatgtgc cacccaattg cttccatgtg tcccttgagg acctttacca 180  
acctattctc ttcctctgct gttagctcac tgtgatcacc acaggcttgg tctcgctctc 240  
ctccaagaac acataacttca ggtgggtggg taggatcttc aactccacct tgggtcttctc 300  
ggatggactc ccactttnta attcttcaaa gctgggtccc cttgcacgaa tgttttcttc 360  
atgatctaag tctttcaaga aagtgtcag atcctttttc tcttcaatat gtagatgatc 420  
cacaacatng atcaaaactt tct 443

<210> 8181

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8181

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ttacgatcct ccttttttct tctttggcca taactatagc ctgctctttg tcaccgctct 120  
gcactctcca cttcacacac tctgtttcct tacaaacact ttgcatacta tcaattatat 180  
cgcttttaaa atatattgaa taaaaaatat gcttaatttt gttctaaaat ataataacag 240

atacatccct tttcatgata taagaagatt tatatgaaat tntatttaaa agtttaatct 300  
 ctgtaaaaaa cattatatca ttaatcaatc atgaatctta attgtcagca taacttataa 360  
 aataattatt ataaaactta ataatttggt ttcagtgtat ttattataaa aaataataaa 420  
 tgtatcatat atgataaatt tatgattaa 449

<210> 8182  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 8182

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 acaactttat tggcgactct tcacaaaacc ttcaattcct acaaaaactg ttaattcaca 120  
 tgagctcaca agtaaccata cacatagatc gatattcagc ttctgcattg gaccgagcga 180  
 ccatagtctg tttcttgctt tttccaagaa aaagatttcc ttcaatgaag acaccatatt 240  
 ctgatgtaga ccttctatcc atgggacaac caccccaatc agcatcacia tattccgata 300  
 gttgtgtatt accc 314

<210> 8183  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8183

nggtgacctt tcacactata tccactcaaa ttcccattat ctggaaagtc attaatggtg 60  
 caaaatatca tcgcatgcaa cctaaaagtc tcaccctgat ttgcatcata cacatcaacc 120  
 ccgtctacct aaaacttacg catgtcttca atcaaaggag taaggtagat atcaatatcg 180  
 tttactgggt gtcttggacg tgatatcatc atagacaaca taatgtattt gcgcttcatt 240  
 cataacgaag gaggaagggt gtaaattcatt agcaacacac gccatgaaat gtgattagt 300  
 gacaagttac caaatggatt catgccatcc gaagaaagac caagtcgaag gtttcttggt 360  
 tcggctccaa attcaagata caagtgatca a 391

<210> 8184  
 <211> 463

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8184

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tgggcagtc atgggctatt ttgatattcc agttgatcat gtgtatggac aggtaacaga 120  
tgattatgcc atattgtcat tacaatataa tagcatggaa gaaaaaaaaac atttaaatcta 180  
ttaaactcaa acaaacaaac atgccttggga tatgttggat atttgaatt gatagttact 240  
ccaataatgt gtttaattcat tgtattgatg catctctagt ttgaattgaa atgaagtgc 300  
aaccttctag tgacatgcc aatttactgt tagtaggtat ataattattt aaatttccaa 360  
tttctgtgt aaagaaactt caaatctagt attgtttaga tgtgctaaaa tcttctattg 420  
ttnttttttc ctggttcagt cactcgtgga ctctaattgt ttg 463

<210> 8185  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 8185

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aactagggcc atgtattctg ctttagttgg ggacaagacc acaacctaat tgttgatttg 120  
ctttcaaact gattgttgta ccaaacaaag taaacacata tcctgttaag gacttccttg 180  
tgtctacatt tactacaaaa tctgcatcta cataacctgt gactgctgcc ttgtgtgctg 240  
tcttcttgta ccttaaacca gctttcaaag atccatttag ataccttaat ggccacttca 300  
cagccttcta atgtgcgctg tccggatctt ccatgaatct actta 345

<210> 8186  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8186

agcttatcct ctagggatcc ctttatatgt tcattttaat ctccaagcgt gagtaactca 60  
tcccttacct ctaagtgcac tcgcgtgtgc agtttggcag tgatagcaac gtctctagct 120

aagattcctc aagtttttcc tctggttggt ctgcttggtt ttccaagcat tagagtgaag 180  
gagaatgaat tanaacttca atttctactgt ctccttgcca ggggaatttc tctttctact 240  
aatattattht cgaaaattcc aattgagtga atatgcgaaa atgagttccg aagggtggtat 300  
ccaaatttca ggataatcca acggttaagg agtctatgat cgtagtttta ctacaatgg 359

<210> 8187  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 8187

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ccatatcggg aaataatata tcgagacccc cgaaattgaa caaccggaac ctctcgagaa 120  
atthtgaaatgg gcataacatt tctctcgat gttcgatccg gggacataaa ttatcgagac 180  
cctccaaatt gaacaaccga aactctcgac aaattagaat ggtcctaact tttcacgcga 240  
atgtcgattc ggggacataa ctcatctaga gctcaaattg aacaaccgaa gctttcgaga 300  
aatttgatgg tcataagttt cacacggatg tccgattcgg gaacat 346

<210> 8188  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 8188

agctgggatg tctactagtt ttgtcaggaa tatatatata tatatatata tatatagcat 60  
gttgagagac aaatgtgggg aaaagttatg ctggttcttg aagaatccat gccatatgga 120  
tgctacagag tgaaagggaac ttgttttagt gtagagagat gaagaaagtt ctacgttaat 180  
ttggaatatg atttggtggt tggaaggaga accgtaaaag aggggtgcaag agttttccaa 240  
cgtgttccag aggtttcatg tgttactttg tcaacatatt ggtcatattc atcggactac 300  
agcttttctc ttttaagtaat gttttgggca atttcacact aagttgggat taa 353

<210> 8189  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 8189

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ttctcatttg gaccgattaa ctcagcaagg ccggcccaaa caggaactgg accaaccat 120  
gcaagaatgg agcctgcagc ccaaaaaaga actgggcccag gaacaacacc aggagcaaga 180  
gcagcacctg cagtattagg agaaacacca ggagcagaag caacacctgt agtagtagga 240  
gcaacaccag gagcagaagc agaaccaaaa gaagaagaac cagaaccaa tatagacca 300  
aaaccagcac caacagca 318

<210> 8190

<211> 332

<212> DNA

<213> Glycine max

<400> 8190

tctcgatata tgattcgctt gaatcgaact ttcgtttcaa aatttatgac catatgaatt 60  
tctcgagact attcggtata caaattcgag cgtctcgatt tattatgtgc ctcaatcgga 120  
cctccgtgta ataagttatg accatttgag tttctcgaga agcttcgctg ttcaatttca 180  
atcttctcga tatactatgc gcctgaatcg gactcttggtg ggaacagtta tgaccatag 240  
aatttctcga gagcattcgg tgggtcaatta aaagcgtctc gatattttat gcgcctaata 300  
cagaccttcg tgtcacaagt tatgaccatt tg 332

<210> 8191

<211> 350

<212> DNA

<213> Glycine max

<400> 8191

agcttctcgt tatattatgt gtttgaatcg gacttcggtt tgaaaaatta ttaccatttg 60  
aatttctcga gagctttggc tgttcagttt cgagtgtctc gatatattat gcgcctgaat 120  
cggacttttg tgtgacaagt tatgaacatt tgaatttctc gagacctttc ggttttcaat 180  
taagatcgtc tcgatatgtg atgcgccaga atcggacttc cgtgtgacaa gttttgacca 240  
ttggaattta ttcgagacct tccgatcttc aatttcgagg gtctcgatat attatgtgcc 300  
tgaatcggac tttcgtgtga caagttatga acattggatt ttctcgagac 350

<210> 8192  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 8192

tcttagtttc agatgatgca gatgggtttg tatctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg aattggaagc catcttctca attaaatttc 120  
 tggcttcagc aagagtcatg tctccaaagg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaat gttggagaag aagctgttct gaaatctgat 240  
 ggtgagggca actggcacat agtttcttaa atcgctccca gtactcatac aagctctctc 300  
 cactgagttg tctaatacct gagatatctt tcttgatggc tgtggtcctg gaagcagggg 360  
 aaaaattttc taagaatact ctct 384

<210> 8193  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 8193

agcttaacat tgtaccactt tttggtgctg gaactacttc acatggactt gatggggcct 60  
 atgcaagttg aaagccttgg aggaaaaagg tatgcctatg ttgttgtgga tgatttctcc 120  
 agatttacct ggggtcaactt tatcagagag aaatcagaca cctttgaagt attcaaggag 180  
 ttgagtctaa gacttcaaag agaaaaagac tgtgtcatca aaagaattag gaatgaccat 240  
 ggctgagagt ttgaaaacag cagtttactg aattctgcac atttgaaagc attactcatg 300  
 agttttttgc atccatttaa ccacaataaa atgtgttttt tg 342

<210> 8194  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 8194

agctttctgg tgtacctgaa gatgctatta ggctcagcct gttttcattt tctttatttg 60  
 gggaggccaa gagatgggtg cattcattca agggcaacgg tttaaagact tgggatgaag 120



ttgttgagaa gtttctaaaa aaatatttcc tatagtctaa aactgcatag cgaaaagcta 180  
 taatttcttc attccatcag tttcccgatg aatctttgag tgaggcatta gaaagatttt 240  
 gtagcttgct gcggaaaact cccactcatg gtttttcaga gcctataaag ctgaacatct 300  
 tcattgatgg gttatggccg cagtcaaagt atttactcga tgcttctg 348

<210> 8195  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 8195

ttggagtttc caagtgccaa ttcgtcttct tctttagtcc tttcctcttc tggcttcaat 60  
 tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180  
 tcatagttgg ttccatccag aattggtggt ctgttcaactg gtcctccttc tttctccatg 240  
 ttcacaaaaa tttatctccc taggtctcac tcagtgattt cgagtgcccg ctctgatacc 300  
 aattgaaatt ctgataccaa tgccagatgt cgtacaggat gtcacgacat cagccttcag 360  
 aacatgcaga atatctctga gtgtatgaa 389

<210> 8196  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 8196

tctacagaag gtttgttctt aatttctcta ctcttgcttc acctcatcct actaagagga 60  
 aatgcaagct tagtcccaga ggtgatggac ctttttaggt cttggagatg atcaataaca 120  
 atacatatag gttggacctc tcagaagagc ttggagtcaa caccactttt aacatttctg 180  
 atataatttc cttttgtatg tggagctgat actaacgagg aggaaccaac agatttgaag 240  
 tcaaatcctc ttcaaggggg aggcgatgat gcaattctac ctacgaaagg accaatcact 300  
 aaagcaatga tctaaacgat ctaaaatgat tgggctaaac tgctgaagag ggccctaggt 360  
 ctcatg 366

<210> 8197  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8197

ttacaaaaat agtttgagaa aaaccttaaa attccatttt ttccaacatg caactaaaac 60  
 attcaaagct ttacaaagtc cataactaatg tctacctaag gtgtaaatgg gatgggtaaa 120  
 ggtgtgtata gcccatgagg catcacccta aacttggctt gtaaacaagc cacacacata 180  
 gtgcaatgct tatggacact tttcttcata tggggccaat aaaacttttc tttgagtaag 240  
 acaaggggtct tgtctatccc aaagtggccc atgagcccac ccttatggct ctctntcaca 300  
 agtaatttcc taatggatcc tttgggtatg caaaactttc cctctttgaa caaatacccc 360  
 tcagccaaat aaaatcatc 379

<210> 8198  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 8198

tgcaatatat ttgcaacctt ttcgatgcca tttaacgtta tcaatggacc ggaaacaaca 60  
 tcgctgtgta ctaaattcct catgtaaggc cctgcatgat cccacaaata tcgctgttct 120  
 tatatccctc tcctcttaaa aaatgaacct gctgacaaaa aaaatattta agtattttta 180  
 cccctttaat actatccttc ccattggata gtaccagaaa tctttattga actcacgcaa 240  
 tttgacacaa aaagacactg tcattctcat 270

<210> 8199  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 8199

tgcatgattt acatctcccc ctttctcaag cttattcttc ttgatatcat caaatcttc 60  
 atgatcccgat ctcgttggtg gaggatgcat gaatgacaat caattcatgg ggctccgaat 120  
 aaaagtggat aatggaggat atgcgaagag cgctaggcaa tcaattcgcg gttctcccgat 180

ctcgttggtg gaggatgaat gaatgacaat caactcctgg ggctccgaat aaaagtggaa 240  
aatggaggat acgagaatag cgctaggcaa tcaattcgcg gggctgcaga ctcgatggtg 300  
gaggatgcaa gaatgacaat caacttatag ggctacgaat aaa 343

<210> 8200  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 8200

tgtcatttca tctccgctct ttgttttagtg gtatctgagc aaatcagcca acttggacct 60  
gttctgacta tcctcgtgga tacccaactt caaattcttc gaaaaagcat cataaaactt 120  
gttgtaatct tccttgttct ccgcaatttc attgaacatc tcaatgcact tcttcacgag 180  
attcttcctg atcacettca ggatcttgtt ttggtgcagc atctcacgaa agatgttgag 240  
cggcaagtca tcggagtcaa caacaccttt cacaaatcca aggtactcag gaatgagctc 300  
ctcacaattg tccattataa acacccttct gacataaagc ttgatgttga tcatcttctt 360

<210> 8201  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 8201

cctgctagca tgcaagctct ggagttttca agtgccatat tcgtcctctt ctttagacca 60  
gtcttcttct ggcttcaatt catcagtggg ctttccttct gtgtccagca tcttgggatg 120  
ttcccagcct ttgatgacag ctttccaggt tctgctatcc agtgatttga ggaaggccac 180  
cattcttgct ttccagtatt catagttgct tccatcaaaa attgggtggc tgttcactga 240  
gcctccttct ttctccatgt tcatcagaat ttatctcccc agatcttact ctgtgatttc 300  
gagtgttggc tctgatacca attgaaattc tgataccagg ggacagatg 349

<210> 8202  
<211> 173  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8202

ttcacacgga ggtctgattc angcacatca tatatcgaga ctctcaaaat tgaacaatgg 60  
aagctctcga tatattaaaa attgtcataa acttttactc gaatggcccc attcagggcc 120  
catcagatat cgagacgctc gaatttgaac aacggaaccc ctcgagaaat tca 173

<210> 8203  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 8203

tcagctgac attccctctt tctctgtttc aatgataagt catttactgc acttttggtg 60  
tatgttgatg atataattct aacaggggaat gatataatgg ctatcaatcg tattaccata 120  
tttatggacc aaaccttcaa gattaaagat cttggcactt taaaattttt ctttggcatg 180  
gaggttgctc gttcccagca ggcattccatc tatgtcaaag aaatatggtc tagatattct 240  
ctctgattct ggaatgcttg cttgccgtcc agcttaacac ctatggattg gactact 297

<210> 8204  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 8204

tatacccatg agtattattt ttatgatcct cataactggg agattgagaa acatagactt 60  
cctcttcaat gtattctttt aaaaaagcac tcttcacatc catttggtac agttttaaatt 120  
ccataataca atcaaatgca agcaataatc tcacaacttc taatctagct attggagcat 180  
aagtttcacc aaaatctatg tgctcttggt gggtataaacc ttttgctact agccttgatt 240  
tattcctagt tatcaagcca tgttcatcta gcatatTTTTT gaaaacccat tttataccct 300  
ataatatttg gcttactagg cataaagtag tagttcccaa acttcatttc ttttaaattg 360  
a 361

<210> 8205  
<211> 274  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 8205

ntgaactttc gtatccttct ggacttttagc tttcattcca atcagtttat tttggaaaat 60  
attcatttat ttttaattaa tttctaacat ttttagatat tacttatnt aattaaaact 120  
tcctagttaa gttcttggaa atgtatatta caagtgtatg taaatcaata aattgatgac 180  
attatttcac ctaatcattc atttcacatt ccaatttata tatgtaactg catttgaata 240  
ttaaaaacta ataatttaat gatttataat aatt 274

<210> 8206

<211> 355

<212> DNA

<213> Glycine max

<400> 8206

agctttgaat ctccatacat ggtttgcaca tgtcgtgtga tgcaatccta ccacgcaagg 60  
gcattggata gaagactcca agtagattgg gctagagatg caagagaagg ccctaagggtt 120  
ctcatgagcc ttagggcaga tttcgggcct atgggctaag tatgagccca cttatcttag 180  
tacatattag attaagggtt cattatcttt tgggccttgt atttagggct ccataatgta 240  
ggtaaggtag cctagaaatg taggattttt caaccattgt attttagggc acctagacta 300  
gtttttgtat taggggtagt tttataattt catatgcatt aagtgaatat ttgat 355

<210> 8207

<211> 286

<212> DNA

<213> Glycine max

<400> 8207

tcaacatcag accactttca gtgtgctgga actacatcac atggatttga tggggcctat 60  
gcaggttgaa agccttggag gaaagaggta tgcctatgtt ggtgtggatg atttctccag 120  
atatacctgg gtcaacttta tcagagagaa atcagacacc tctgctactg tcaagcactt 180  
ccacatcttt ggaagtccat gttacatttt ggcagataga gagcaaagga gaaagaagga 240  
tcccaagagt gatgcacgaa tattcatggg atactcttca aacagc 286

<210> 8208

<211> 351

<212> DNA

<213> Glycine max

<400> 8208

agctttgagc ttattcaacc gactataacc ttttactcgg atgtctgatt gagtcccgta 60  
atatatagag aagctcgaaa ttgaatgttg aacctctgat ccaattcaaa ggacaataac 120  
tttttactcg gatgtctgat tgagttccgt catatatcga gacgctcgaa cttgaatggt 180  
gaagctctga gcaaattcaa acgacaataa atttttactc ggatgtccga ttcagtgcag 240  
taatatatcg agacgtcaa aattgaatgt tgaacctatg agccaattca aacgacaata 300  
actttttact cggatgtctg attgagttcc gtcatatatc gagacgctcg a 351

<210> 8209

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8209

ctaagctggt tgggtaacca aacttttagca atataaaaag tttatgttac acgggactga 60  
agtgtcccaa attgcaaact gataaaagac aagaaatddd gtttgcaggt acttactcct 120  
tcgtactccc tccaaggaag cttcccatg aacatttcta taattgtaca acccaaactc 180  
caaatatcaa caacaaaagc aagggtcaaag ctgttatcct tttgcacaac cgcttgaaaa 240  
agctacatgt atgtggaata agtgtttata gagaatgcat gagacatcat gaagtaaaat 300  
agagttataa acttaggggtg ctcanngttt tgggtgaagcc aatdddttggt gtctgtgcc 360  
acta 364

<210> 8210

<211> 350

<212> DNA

<213> Glycine max

<400> 8210

agcttgtgtg gctctatcca tatttgaagc agagtatatc gctgctgggtg gttgttgtgc 60  
tcatatcttt tggatgaaac aacaactaga agattttggt atcttccttg atcacattcc 120  
tttgatatgt gacaacacaa gtgcaataaa cttgaccaa aatcttgtca tgcattctag 180  
aactaagcct ataaaaataa gacatcattt cattagatat catgtgctta aaggagattg 240

tggttatagta tttgtagata caaccaacca actagttgac atctttacaa aacccttgtc 300  
tagggataga tttataaaat aggacatcat ttcattatat atcatgtgct 350

<210> 8211  
<211> 344  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8211

ttggagtttc caagtgccaa ttcgtcttct tctttagtc agtcttcttc tggcttcaat 60  
tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
gctntccagg ttctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180  
tcatagttgg ttccatctaa gattggtggt ctgttcaactg gtccctccttc tttctccatg 240  
ttcatcagaa tttatctccc tagatctcac tctgtgattt cgaatgttgg ctctgatacc 300  
aaatgaaatt ctgataccag gggacagatg tcgtaccga tgct 344

<210> 8212  
<211> 286  
<212> DNA  
<213> Glycine max  
  
<400> 8212

tgagcacctc ttttcttacc tcttccttca ttgttgggtt tatccgcctc tgaggttgct 60  
ggactggcct gtaatcgtct tccatcatta tcctgtgcat gcagtaagca gggctgattc 120  
ccttgagatt cgatatgttc catccaatta ctctcttggtg tttcttcaga atgtctacca 180  
acttgttctc ttcttctctc gcaagtgcac ggctgattac tacagtttta gtgtcatctt 240  
cctctaggaa cacatacttc agatgattgg gcaatatctt caactc 286

<210> 8213  
<211> 355  
<212> DNA  
<213> Glycine max  
  
<400> 8213

agcttcttgt tggtactatg atttttcaat atttcttccc tcctcttttc atctggtaat 60

ccaacagtga cctattggaa caattacaaa ttgtcatgtc ttataatttt gttgaatttt 120  
tagtaactac taactagctt aaaagtcata cctaccaact gattgatcga tcgtgcaaaa 180  
agttttatac tactagcata ttataataaa attcattgtc ttatacgtta aaatttgttt 240  
atttttatag taattacttt aaaagctata ttataataa attctgatgg gttaatgatt 300  
tacaatagca atgcatggaa attaaactga taaataataa ttatataggc attaa 355

<210> 8214  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 8214

agcttgtcca atgctttccc atattaacct ttctgatgtc gcacataaga cggagtcacc 60  
ccgtaaaaaa ccggccaaac caagcgaccc ttcttcatta tgcactcaag gatcatgaca 120  
agctcttcaa gacagtaagt tgaggaagca tagttttcag agaaaacaac aatggcaatt 180  
cttgactgct gaattgcctt gaaaagagca tgtctaattc cttcccctct tctgagcccc 240  
tcatcatcca tgaagggtgtg gattccctgg tcacaaagag acttgtaaag gcttccagtg 300  
aaaccacttc gagtatcatc gcctctgaaa ctgaggaaca catcataagt ccactc 356

<210> 8215  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 8215

agcttgtggt tttctcacag atttgacatg catgatgcc tttcactg tatccactta 60  
aatttccata tgctggaaaa tcattaatag taaaaaacac cattgtgctt aacctgaacg 120  
tctgtgcac atttgcattc cacacatcta ccccttcttc ccacaattgt ttcaagtctt 180  
cgattaatgg cgtaagatac acatcaatat cattccctgg ctgccttgga cccgcgatca 240  
tcatacacia gataatgtat ttacgcaaaa tgcacaacca tgggggaagg ttgtaaatca 300  
tcagtaaaac aggccacgaa ctgtggttgc tgcttaagct accataagga 350

<210> 8216  
<211> 321  
<212> DNA



<213> Glycine max

<400> 8216

tcttagtttc agatgatgca gatggggttg tttctacctc atgcactcct ctaatgacta 60  
tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120  
tggcttcagc aagagtcatt tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
tctccatatt acagagtcct tcataaaaat attggagaag aagctattct gaaatctgat 240  
ggtggggggca actggcacat agtctcttaa atctctccca gtactcatac aagctctctt 300  
cactaagttg tctaatacct g 321

<210> 8217

<211> 361

<212> DNA

<213> Glycine max

<400> 8217

agcttgcata gatgttttca tttgtttggc accttccatc ttgaacttct ttagaagttc 60  
ttagtatat tttgggtgtt gattatatac acctatgttg tcttacttga tctaaaaccc 120  
cataaagaac ttaagttctc ctatcatgct catttcaaac tcacttttca ttagttaaga 180  
gaaatccttg ctcatagatt cattagtagc tccaaagata atatcatcta cacaaatttg 240  
aactatgatg aaattctttc caacttctct cttaaaaaga gttatattca tgaggtgcct 300  
attcagacca tacataacct ttttcagttt aaaaacatgg tctagaaggg tgtgtcttca 360  
a 361

<210> 8218

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8218

tgccttgccc cttgatatat ttgagggact catggtcact atgaatgaca aattccttgg 60  
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
aagttgaata gttaagggtta agaccactta acttttctact aaaataagca attggatggc 180  
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240

atTTTTgaaa gtttggcaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
 tganagcttc ttcttgtttc tctccccatt tgaaccaac atttttcttg agcac 355

<210> 8219  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 8219

agctttatgc aagtcaattt tatgtggcat ctcagagagg atctttttcg ggcataattg 60  
 cgcaaaatct cttgaactag gaagatgctg tccatcatct ttctgttctt aatgaaagca 120  
 gtttgagttt cccaataat agtctcaagc aactggggct atgcggttgg ccagaatttt 180  
 agacacaatc ttgtataaca aattacaaca agatatgggt ctaaaatggg taacctagga 240  
 ggtctgatca tgcttaagaa taagcgccat 270

<210> 8220  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 8220

agtatggaga tacttgcaact atatagggct ccaatatgaa tttctgactg caagatgaaa 60  
 atgggatgtt ataatttgca ccttttcatt taatcatttt actttttgca gattatcgca 120  
 gagagcttat ctgaagaaga aatagctggc ttaaaagaaa tgttcaagat gatagatgca 180  
 gacaacagtg gtcaaatcac tttagaagaa ctttaaactg tgttgaaaag agtggctgct 240  
 tatcttaagg agtctgaaat ttt 263

<210> 8221  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8221

cctgcatgca tgcaagctta tgtccgcaga gggatacttc ntatagaagc agctgaatca 60  
 tttttctcct acaactcgtc aaaacttgat gtttttaagc aacatttcct gttactggaa 120

aagatttcaa ggataggtat cttcgaaaac cttatgtatt cgtggaagag agacagaaag 180  
 tccactgtct aaatactctt ttttctaacg gttgcctttt cttt 224

<210> 8222  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8222

agcttctcta tatgngangc ttattttcgg ncatccgaga naaaanggag gaccatttga 60  
 ttttctcaag cggtttcttt tctcaatttc gagcgtctcg atatattatg cacctgaatc 120  
 tgacctccga gagaaaagtt atgaccattc gaattgctca agagcttcca ttgttcaatt 180  
 tcgagcgtgg cgatatatta tgcgcctgaa tcggacctcc gagttaaag ttatgacctt 240  
 cgaatttctc gatagcttcc ggttttaaat ttcgatcgtc tcgacatatt atgcgcccga 300  
 atcggccatc cgtgagaaaa ggtatgacca tttgaatttc tcgaggctc tcggtattca 360  
 atttcg 366

<210> 8223  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8223

agcttgtaac aaatctttac acttggtttg atacatgcag nccttctgga cctttaccgg 60  
 ccacttcggc gtcattggga gactcaagaa gcccaacagg tttaaccttt tgaatgtagt 120  
 ctgaacaaaa ttcaatggct tattctgcaa tgtacctttc aacaatagat gcttcgggac 180  
 gatgtaaatt ctttgtatac ccttttaaga tcttcatgta tcgctcaacc gggatcatcc 240  
 accacaaata aacaggacca caacatttga tttctctgac cagatgaaca attaagtga 300  
 tcatgatgct aaagaaagca ggaggaaaat acatctccaa atggcatagt ataattgcgg 360  
 cctcatttt 369

<210> 8224  
 <211> 218  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8224

tccggcgcaa aaggnatgac catatgaatt tctccaccgg attccggggg acaaggtatg 60  
accatttgaa tttctcggta gcaaccgttg ttcaaaatcc agcgggtcga caaaatatgc 120  
gcccgaagcg gaccaccggg ggacaaggta tgaccatttg aagttgtcga gagcatccgg 180  
ccgtagattt cgagccgctc gatatattat gcgccccg 218

<210> 8225

<211> 266

<212> DNA

<213> Glycine max

<400> 8225

agcttcccgc caatggtatt ttaagtttat atgataccat tgtttccttt ggatttaagg 60  
aaaatactgt tgatcagtgc atatatccga agattagtgg gagtaagggt atttttctaa 120  
tcctgtatgt ttatgatata ttgctgcaat taatgatctt ggtcttctcc atgagactaa 180  
gaaatttctc tctagcaact ttgaggtgaa agatatggga gaggtaagct atgcgatagg 240  
gatagaaata ttctgtaata gatcac 266

<210> 8226

<211> 320

<212> DNA

<213> Glycine max

<400> 8226

agcttataat atattgatat ttctaattatt aaacattgga agctctcgag aaattcaa 60  
ggtcataact tttcacacgg atgtccgatt cgggcaaata acatctcgag acgctcataa 120  
ctaaacaacg gaagctatag agaaattcta atgggtcaaaa cttttcacac ggatggccga 180  
ttcaagcgaa ttacatatcg agaggctcaa aattgaacaa cagaagcttt cgagaaattc 240  
aaatgggtcat aacattttaac tcgaatgtcc aatttaggag cattacatat agtgacactc 300  
gaaattgaca acggaagctc 320

<210> 8227

<211> 370

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8227

agcttgaagg caaactggat tttttgttaa cttnggaacc aagctggcct tgaatcagaa 60  
 atttgtacct gtcgcaaggg tttgggggttt gtgcttctct gctgaccacc atacagacct 120  
 ttgcccttcc atgcagcaac ctggagcaat tgagcagcct gaagcttatg ctgcaaatat 180  
 ttacaataga cctcctcaac ctcagcagca aaatcaacca caacaaaaca attatgacct 240  
 ctccagcaac agatacaacc ctggatggag gaatcacct aatctcagat ggtccagccc 300  
 tcagcaacaa caacagcagc ctactccttc cttccaaaat gttgttggcc caagcagacc 360  
 atacattcct 370

<210> 8228  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8228

acgccgggat cttaagcacc tgcagcatgc aagcttgagc aaatcaacta gtaactttat 60  
 atncggatgg gcgaaagagn cccggaatat atcgagaggc tccaaattga aaacggaagc 120  
 tcatatcaaa ttcaaaggac aataactttt tactcggatg tccaatagag tcccgtata 180  
 tatcgaaaca ctccaaattg aaaatggaag ctcgatatcaa attcaaacga caataacttt 240  
 ttactcagat ctccaataga gtcccgtaat atatcacgac gtcctcaaatt gaaattggaa 300  
 gctcgatatca aattcaaacy acatttactt ttaacttggg tgtcccgatg agaccgtaa 360  
 tatatcgcca cgctccaaat tgaaagcaga agctctaa 398

<210> 8229  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8229

agcttcacat aggcaagn gn tnncttctta attccaaatc atagatatgt cataaattga 60

ttttgcaggt catttcccat caaatcaagg ataatatgca taatcatcat ggatcaataa 120  
 gactttctaa agtcagactt cgtaggaaat tggtttttgg tgcctctggcc tttccctctt 180  
 ctcttaccct ttgttttgtg aagaatagga gagtacacc aaagatttgg ttagtaactt 240  
 aaatgggcga tcacttccta tcccttcatg tcttaaccaa gttactatta cccctctctt 300  
 ttttctctt ttgacaactc tgtacatgga acacccttg 340

<210> 8230  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8230

agctagaagc gattcacatt attgtaatcg annaccagag cagaggngca gaaaatatta 60  
 tcaanagcca catcttttta tgtgggtctt gaatggctat caaaagccta tataaatgtg 120  
 actcgagaca cgaatttgct aagagttctt tagaacaaaa aggtcttctc ctcttaaaaa 180  
 gtaaaatcat tttatcctct tacaattcc ttggccaaat tacttgatgat tcaataagga 240  
 attatttaaa ttctcaaatt gttcaatcta tctctttcaa gagagatttc ttcttttctt 300  
 cttcttcatt ctgaaaaggg attaagagac cgatgggtctc ttattgtgaa agaattctaa 360  
 acacaaa 367

<210> 8231  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8231

agcttgaatc cctctataag tacttatttg ggagcttgnt gagaaaccaa ctgatcaaaa 60  
 gattgttggg tgcaagtgga aattcaagaa gaaagatggg gatttgaagt tgaagacaac 120  
 ctttctccat ggtgggttgg aggaaagaat ttatatgcaa caatcagagg cgtttgatgt 180  
 accaggaaaa taagaccatg tgcgtctata aaagaagtct ttgtatgggt tgaagtatgc 240  
 acctaggcaa tgggtataaac gatttgactt gtttacgatt gatattgggt attaagaagt 300  
 gagtatgata gttgtgttta taataagaaa ttgcccgaag attcttatat ttacttgc 358

<210> 8232  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 8232

agcttcaaga ataatggcct tggcttactt cttattccca taaggaaatt caataaatag 60  
 gcctcctatt tttaatggag aaggttacca ctactgggaa acccgatgc aaatcttcat 120  
 tgaggcaata gacttaaaca tttgggaagc cataaaagta ggaccttatg taccacccat 180  
 ggtggctgga aatgcaacaa tagaaaaacc tagagaagag tggactaaag atgaaagaat 240  
 attagtgcag tacaatttaa aggctaaaaa catcattact tctaccctag gaatggatga 300  
 atactttagg gtttcacatt gtaagaatga taaggatatg tgggacactc tacaagttac 360  
 acatg 365

<210> 8233  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 8233

agcttggtat cgattacaca cattttatta tctattacca gaggagattt tcagaaaata 60  
 ttgtcaacag tcacatcttt tcatttggnt cttgaatggc catcaaaggc ctatatatat 120  
 gtgacttgag acacgaattt gctaagagtt ttcataacaa aaaagggtctt atcttcttaa 180  
 aaagcaaaat cgttttatcc tcttaciaat tccttgtcca aaacacttgt gattcaataa 240  
 ggaattattt gagtgcctaa attgttcaat ctatctcttt caagagatat ttcttcttct 300  
 cttcttcttt attctgaaaa gggattaaga gactgagggt ctcttggtgt aaataaatct 360  
 taacac 366

<210> 8234  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 8234

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 ttagaaatgt gacctaagcg tttgtgccat aatgctcctg agtttgtatt atcaattcta 120  
 cccttagtac cacgcaattc tgcattaaag gattcaccat aggagaatac agtatcaagt 180  
 aaatatagat tatcattaac caagagtga cgggttccaa caatatctga attaaaagac 240  
 aacctgaaca cattgtttcc aaatgaatac aaataaccca atttatccaa ataagaaact 300  
 gaaaccaa at ttcgtctaaa tgacggtaca ataaaagtg ctttcaaata caaataaaaa 360  
 ccagtactaa 370

<210> 8235  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8235

agcttcaaga ataatggcct ttcttatctt ttatttccag aaagaaattc aatcaataga 60  
 cctccaatct ttaatggaga gggttaccac tactggaaaa cccgaatgca aatttttatt 120  
 gaggcaatag acttaaatat ttgggaagcc atagaaatag ggccttatat acccaccaca 180  
 gtagaaagaa ccacaataga tgggagcaca acaagtggaa gcacaacaat agaaaaacct 240  
 agagatagat ggtctaaaga ggatagaaga cgtgtacaat ataattttaa agccaaaaac 300  
 ataattacat ctgccctgng aatggatgaa tatttcaggg tttcaaattg taagagtgtc 360  
 acggaaatgt ggg 373

<210> 8236  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8236

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 ttctcaacag tcacatcttt ttatgtggnt cttgaatggc tatcaaaggc ctatatatat 120  
 gtgacttgag acacgaattt gctaagagtt tttcagaaca aaaaggtctt atcctcttat 180  
 aaagcaaaat cgttttatcc tcttaciaaat tccttggcca aattacttgt gattcaataa 240



ggaattatatt gagtgctcaa attgttcaat ctatctcttt caagagagat ttcttctttt 300

cttcttcttc attctgaaaa gggattaaga gaccgagggg ctcttggtgt gaaagaat 358

<210> 8237

<211> 296

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8237

aggatttcct tttagtaggg aatctatcct tcctaagatg gcgccaaacc cagtcaccct 60

cgtaagaac tagctctttt cttcctctat tgcctttagt ttaatacacc tttgtttggt 120

tctctatttg gctcttaacc ctcttatgca acttctttac aaactcttac ctagattccc 180

cttncttatg tataaaaaaa gttgtctatg ggaaaggaat taagtcttac cgtggttggg 240

gattgtaccc atttacaacc tcaaaagggg agtggttggg ggatttttaa accccc 296

<210> 8238

<211> 372

<212> DNA

<213> Glycine max

<400> 8238

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gttgcaactg agtgagttag atgaaatccg cctagaagcc tacgagaacg ccaagttcta 120

caaagaaaag accaagaagt tccatgatag catgatagtt aaaaagact tcgtggttgg 180

gcaaaaagtg ttattgtata attctaggct tggactcatg agtggttaagt tgagggctaa 240

gtggattggg ccttttgttg ttactaatgt ttttccttat ggggacagtg agatcaaaag 300

cgactccaca aacaagagct tcaaggtcaa cagacatcga cttaagccat tcctcacgaa 360

cccttcttta gt 372

<210> 8239

<211> 258

<212> DNA

<213> Glycine max

<400> 8239

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ataggcgcgcg cagcactgga tccccgccct ccttcgagag ccgagccgtg ttcccggtgcy 120  
ccacaaatgt tgctcgctct tggaatgacg tgtacacaaa ccccaaatat gggttgttgt 180  
ctgcccgaagg gtcctcccca atttagtcta accaaaatcc attattccaa ttccatttta 240  
aaagaaaaaa atctttctt 258

<210> 8240  
<211> 306  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8240

gcttcatgtc caaaagatat tatatttttag ggtctgaana ttccctgttt ttcttcgcac 60  
ttacaatctc aagtaaaatc actccatagc taaagacatc tgatttcaca gagaattgcc 120  
cactcacagc ataccagga ggcatataac cactgaagaa attttatagt aagataatca 180  
aaagttgaaa gagtaatata aaaaaatcaa aattggatag aaactaacta agttccggcc 240  
actgtatttg tgtttgcctc aacttgatct cccaagaaag atcgagcaag gccaaagtct 300  
gatatt 306

<210> 8241  
<211> 253  
<212> DNA  
<213> Glycine max  
<400> 8241

tgtgtggagg aacacgctac ataatgagag agccagacat gaacagccca tggttgatac 60  
atggactgag atgaaaaaga tcatgacgaa gcggcatgtg ccggctagct actcaatgga 120  
cttgaaattc aagctccaaa aactaaccga cagcaacaag ggggctgagg agtatttcaa 180  
ggaaatggat gtgctcatga ttcaagctaa tattgaataa gatgaggagg tgactatggc 240  
tcgagttctt aat 253

<210> 8242  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 8242

ttctccacta agttgcctga tgcctgaatt ttcttttctg atgggtattgg tcctagatgc 60  
agggtagaat ttctccaaga acaccatttt aaggtcatcc catctgacaa tggacctgtg 120  
agcaatatta tatccaatct tgtgccactc cctccaaaga atgaggaaaa gccttttaaaa 180  
agatatgatc ttcttggaca tgaggggggt ttatggtgga acaaacaata tggaactcct 240  
taagatgctt atgaggatct tcacctgcta aaccatgaaa ctggggcaac aaatgtttta 300  
gttcagtctt gagaacatat ggaacaccc 329

<210> 8243

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8243

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taaagttatt gtcgggtgaa ttntctcaga acttcaacat tcaatttcga gcgtctcaat 120  
atatgacggg actcaatcag acatccgagt aaaaagatat tgtcgtctta attggctcag 180  
agcttctaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca cgcacccgag 240  
taaaaagtta ttgtcgtttg agttggctca gagcttcaac attcaatttc gagcgtctcg 300  
atatatgacg ggactcaatc aggcatccga gtaaaaagtt attgtccgtt gaattggctg 360  
agagcttcaa cattcaattt cgagcgtctc gatatatgac gggac 405

<210> 8244

<211> 229

<212> DNA

<213> Glycine max

<400> 8244

agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgcggaacc 60  
ttcacccgat gaagacactg acaaaaactt atctttgcct tcttggacaa acgatggcag 120  
gctgctggga atgaaatctt tttcccatca aaccttggat gcaactgcga tcgtataccc 180  
atatcagcta gatcttgatg ggtattcaag ccatccttcg tcttgcctt 229

<210> 8245  
 <211> 344  
 <212> DNA  
 <213> Glycine max  
  
 <400> 8245  
  
 acactctcga acactcaagc ttcgcaagcc agcttccatc aaatctcaac tcatctaata 60  
 tcctatacaa aggggtccgta ggagtagaac cctcaccatt aacactagat gaagaacgaa 120  
 gactcatggt gggtcttaag ttgtggttct ttcttggtgg ggggttgaaa acaaaaggta 180  
 aaagaaacta cggttgaaac tagccaaaat aaacactaaa agagggtgtga aagataagggt 240  
 aaaaactaat tggtaaaaag caagttatct aggtgggttg acaatggaag ataaaggaaa 300  
 tttaaagcaa gctagatagt ttcctatgtg aaggcttaga tgac 344

<210> 8246  
 <211> 234  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8246  
  
 tgtaagggtta aagtctcacg attgtcacgt tctgatgcaa caattgttag tcgtggctat 60  
 acgagacatc ttgccaaaca aagtcagggt agcgataact cgctgtgct ttttcttcca 120  
 tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagtnggaaa atgaggccac 180  
 aattttactg tgctagttgg agatgtatct tccccctgct tttttgacat catg 234

<210> 8247  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8247  
  
 gcttggttact tcactagctt cttaccatct ttcttaagct tgaacaccca cttattcttc 60  
 aaggcttttc tgccttcgga aactttcaca agcttataag tatcattctt ctggaaggaa 120  
 tctatctttt cttacatcac tttccttcaa tagaatttat cttatgaat ttcaactttt 180  
 gcaaaacttc ctggctttcc ttcattgatg atgaagatgt actocaaacc atggtacctt 240  
 ctagatgact ggtgctctct atttgatctt ctgaacagca actggctttc ttgctcaaca 300

ccttcatcat caccatactt tatagctagc tcatcatcaa ccctaaagtc attatcaaga 360  
tctaccnctt ctatggcaat tcttctag 388

<210> 8248  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8248

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gtccttacta caaagactac tcaatagaat ggccaaaata caatgccag acgaaagaca 120  
aacctattct aatatttaca aagataatcg ggctcactact taacccatgg gcttgaaaac 180  
taccctaagg ctcatgagaa ccctcaggcc ttcccttgga tctctagccc aatctacttg 240  
gagtcttcta cccaatgccc ttgcggggta tgatngcatc acaagtgaat tggttatgac 299

<210> 8249  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 8249

ggactagatg gggcctatgc aagttgaaag ccttggaaga aacatgtatg cctatgttgc 60  
tgtggatgat ttctctagat ctacctgggt caactttatc agagaaaaat cagacacctt 120  
tgaagtattc aaggagggtga gtctaagact tcaaagagaa aaagactgtg tcatcaagag 180  
aatcatgagt gaccatggca gagaatttga aaacagcagg ttactgaat tctgcacatc 240  
tgaaggcatc actcatgagt tctctgcagc attacaccac aacagaatgg catagttgag 300  
agga 304

<210> 8250  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 8250

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ctttcaatgt gtctgatcta tctctttttg atgcagatgg aggagccttg gatttgagga 120  
 caaatccttt tcaagaagga gggagtgatg atgacataac caagggcaag gaccatgaag 180  
 cacttgaagg tcccatgacc agaggcagac ttaacaagc ccaacacgtc atagagacaa 240  
 ggctgggtcat ttgtatagct gccattgatg atgattgaag gcccaagtgg agaaagatga 300  
 aggcccagag gcagaggcac taccaagact actaa 335

<210> 8251  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8251

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 tagttcaatt tcgagcttct cgacatatta tgcgcccga tggacatcc gtgtgaaaag 120  
 ttatgaccat ttgaatatct cgagagcctt cgatgtttta tttccagctg atcgatatat 180  
 tataagcctg aattgcacat ccgtgtgaaa aggtatgacc atttgaattt gcgagagggt 240  
 ccgatgttta atttcgagcg tatcgatata ttatacgctt gaatcggaca tccgtgtgaa 300  
 aagctatgac caattgaatt tctcaagag 329

<210> 8252  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 8252

agcttaagct ccttcaactg catattgttc ttaatatttt atgagtatcc ccgtggaacc 60  
 ttcacccgac aaagacactg acaaaaactt atcttttctt ttttggacaa agtatgacaa 120  
 gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcatatccct 180  
 atctcagcta gatcttgacg ggtattcaag ccatcattcg tcttgccttg aatgtaaagg 240  
 agcgtcccaa tcacactgtc acatacattt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcta gatcagacca cgacacaaga acaaagaaaa tggacctctt tttcatatgc 360  
 aagcttactt tatecttctt tg 382

<210> 8253  
 <211> 194  
 <212> DNA  
 <213> Glycine max

<400> 8253

ttctcgagag ctgactatgt gtaatttggg gcgtctcgat atattatacg cctgaatcga 60  
 acctcagtgt aagaagttat gaccatttga atttctccag agcgtgctgt ggtcatattc 120  
 gagcgtctct atatgtgatg cacctggatc ggacctgcgc gtgaaaagat atgaccattt 180  
 gaatatctcg agag 194

<210> 8254  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 8254

agcttattat aaaaagaaag ttatgttagg gaagacaagg aagataaaag cactacttga 60  
 accatttgtgt cattaaatac gacacttcct gaggatgttt ctgatagaat ctttctcttg 120  
 aaagtttcat ctttggtgaa ggcataaatg gcaagagggt ttggctttgc attgataaac 180  
 tcaatacttt cctgaatttt atccaactgc acagattgca agtgcaacaa gagttgaatg 240  
 agacaatgca caatatatgt gagaattgaa aacataaaat gggactgttg attctcactg 300  
 tgattatagg aagcagtggg ccgaatatct cttctgccat tatctcagaa tctagtggag 360  
 gatctaacaa aatt 374

<210> 8255  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8255

agcttttgca ctgtgaaaaa taatttatct acttaaaact ttgacaacaa aaacaaatca 60  
 taattagaca gaaagaaatg ggaaaaaat atataaaaat ggaaccttta ataattaaat 120  
 gttaatgtta attaatgac aatgattacg acaaaaataa atacaaaatt taagctgatt 180  
 tgaataatat ggtaaaattg atagtgtaat atttgaaaa aaaccctttc cattaatagg 240

tacttgccaa ttaatatattg cccattatat ttttccaata aaaaataata aactctccaa 300  
tctttctttt ctcactttaa tccacngta anttcattaa ttattatttt attttgctca 360  
atgcttacac cttoctcaca tgc 383

<210> 8256  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 8256

agctattacc tcagtgtgtt ccagctccag tgggccgac gttaccacca gtgactcgac 60  
ggccaacaaa aacctgtcca aagccacctt tgcccagttt cctctctact ttgtagacag 120  
gtgatcctcc tacttgaacc ttttattaac atatcaacaa taagcacctt gacaatatca 180  
acaaaagaat tgagtaataa ttaaaagaaa agaataccct ctccggaaaa ggagctgcgt 240  
tgggtgtcatc ttcttgagca acgcccttgt ttgcactcaa gccaccactc tcgtcggcca 300  
tggcggcagc gtcgtctttc ttagtgtgat cggatattat tataagggga ttc 353

<210> 8257  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8257

agcttttttag ggcattgctat gttctacagg tggtttataa aagacttctc aaagatttcc 60  
aaaccattca acaatttgct caacaaggac gcggtatttt tattcgatga agagtgtttg 120  
aaggcattca acaccttaaa gaccagttta gtgtccgctg ccgtaattat agagccagat 180  
tgaggtcgag aatttgagtt gatgtgtgat gcaagtgatt atgctatggg tgctgtattg 240  
ggccaaagga aaagcagagt cttccatgct atttactatg ccaacaaagt tntaaatgat 300  
gtcagatta attatgctac cacagagaag gaaatgcttg cgattgtcta tttactagaa 360  
aaa 363

<210> 8258  
<211> 237  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 8258

tatgagggtca tttcttcatt cagctntgaa gagaatgtca tagatcactg tatataccac 60  
aaggtcagtg ggagtaagaa tttgttcctt gtattatgcg tagatgatat tctgcttgtg 120  
actaatgata aaggatgct atatgagggtg aaacaatttc tctcaaagaa ctttgatata 180  
aaggatatgg gagaggcatc atatgtcata cgcataaaga tccatagaga aagatct 237

<210> 8259  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8259

agctttcaag atattctttg gccataactc ttctcacgga tgtctgattt tgggacataa 60  
tatatcgaga agctcaaaat tgaacaacgy aaactctcga gaaattcaaa tggatcatgac 120  
tttttattcg gaagtccgat tcaggagacat aactcatcta gacgctcaaa attaaccaac 180  
aaaagctctc gagaaattcc aatgggttatc actttntact cgattcgggg acataatata 240  
tcgagacgct tcgaaatgaa caacagaatc tctctaaaaa ttcctatggt cataactttt 300  
cacacggatg tctgatttgt ggacataata tatcgagac 339

<210> 8260  
<211> 376  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8260

ctttgactcg gatgtccgat tgagtcattt ttataattga gacgctcaac attgaatgca 60  
ggagctctta ccaaattcaa atgccaataa cttnttactc ggatgtccga tngagtcccg 120  
taatatatct agatgctcaa aattgataac agaagctctg agcaaattca aacgaacata 180  
gctnttgact ctgatatact gatgagtcac ttaataattc gagacgctca aaattgaata 240  
cagaagctct tagcanattc aaatgacaat aactttngac tcgaatgggc cgatgagtc 300  
tggtataatt tgagacgctt caaattgaat gcagaagctc taagcaattc aactacaata 360

actttgactc gatgtc

376

<210> 8261

<211> 377

<212> DNA

<213> Glycine max

<400> 8261

agcttgaagg tgtgtattcc gctatTTTTc ataatagaac actggtaatg tgtctattat 60

cattcttatac atttctttct ctgtcattga gggaaccact tgagctgccca ggtctctcca 120

cctttgggcg tattctttga aagatttTgtg cccctTTTTg cacatgttct gtagttgcat 180

cctatccgga gccatatcaa aattgtactg atactgccta acgaaggcaa ccattaggTc 240

cttccaagaa tgaactcggg aaggTtcaa gttagcatac caggtaatag ctacccaat 300

gagactttct tggaagacat gtatcagcag ttccttatct tttgcgtatg ccccatctt 360

ccgacaatac atcttta 377

<210> 8262

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8262

acctcctcct ctaaataacc attaagaaag actggTttca catccatttg ttgcaactca 60

aggtcaaaat aagcaactaa tgccaagata atacaaagag aatctttcat agatacagga 120

gaaaaagtct ntgtgtagtc gattccttct ttntgagtaa atccctttgc aacgagtctt 180

gcctggtatc tctcaatgtt ggctaattgga atccctttgg tcttaaaaac ccatttacag 240

ccaagggcct tngccctatt atgaaactcg acaggggtcc aaactccgta ctctgcatgg 300

gacttca 307

<210> 8263

<211> 378

<212> DNA

<213> Glycine max

<400> 8263

agctttgatg caacatttgg agatgtttat gaaacaacga gatgatgcgc tccatgagag 60

gttggatcaa atggagaata gagatcataa tgaaaaagaa aggaggagaa gagggaatga 120  
 tgggtgttcct aaaaaaaatc gaattgatgg tattaaactc aacattcctc cctttaaagg 180  
 aaagaatgat ccagaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240  
 caacaactat gaggaggacc aaaatgtgaa gcttgccacc acggagtttt tcgactatgc 300  
 tcttgtgtgg tggaacaagc tacaaaaaga gagagcatga aatgaagagc caatgggtga 360  
 tacatgggcg gagatgaa 378

<210> 8264  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8264

actcggatga actgatgagt ctcgtcatat atcgagacgc tcgannatga atgttgatgc 60  
 tctgagcaaa ttcaaacgac aataactatt tactcggatg tntgattgag tcccgtaata 120  
 tatcgagacg ctcgaaattg aatgttgatg ctctgagcaa attcaaacga caataactnt 180  
 ntactcggat gtctgattga gtcccgtcac atatcgagat gctcgaaatt gaatgttgaa 240  
 gctctcagcc acttcaaacg acaacaacat tttactcgga tgtctgattg agtcccgtaa 300  
 catatcgaga cgctcgaaat tgaatgttga agctctcagc caattcangc gacaatacac 360  
 ttttactcgg atgcttgatt gagtcccgtc atatat 396

<210> 8265  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <400> 8265

agcttagtaa agctaggcac taactatctc cctctttggc aaattttgtc taaaacatac 60  
 ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120  
 cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180  
 catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct cttactgcag 240  
 catcttctat cagctactag tcttttccag gatgtcaaga catctcatgt gacatcagct 300

ttcccttgtc tccatgctct tactgcagca tcttctatca gctactagta gcttacatca 360  
gtcatcatca gcagcagcag tct 383

<210> 8266  
<211> 289  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8266

ccgctccagt gctagtnttg cctaaccgga gagaaccctt tgaggtgtat tgtgatgcat 60  
canagatggg tntaggagga gtgttgatgc anaatggcca agtagtggcc aatgcttcta 120  
gacaactcaa gactcatgag aggaactatc ccaccaatga tttggagtag gttggtgtag 180  
tttttgcctt taagatgtgg agacagtacc tgtttggctc caagtttgag gtgttttagtg 240  
atcataagag ccttaagtac ttgttttagtc agaaagagct gaacatgca 289

<210> 8267  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8267

agcttggttc ttgcaattcc aagactctag agagcttcct aataggtggc atgtcccact 60  
tgtgcttttt ctatctaatt tgcacctgc aaaatcaaaa tctaaaaagc ctgttaaatt 120  
taaggaggta cctttgggat acctcaaacc cacattgggt gtgcccttaa aatacttaat 180  
gatcatatta acgaanatta agtgagattc cttaggaatg gactgacatc ttgcacataa 240  
gcaaacactt aacatgatat ctagtctact tgtagtcagg tagagaagtg atccaatcat 300  
agctctacat cttgattcat caacaaattt acctt 335

<210> 8268  
<211> 281  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8268

ctactctcta acactagcta accaactaac tgtgttttagt taacataact agctagtggg 60

taagtacaat ctgtatatgc taagaatccc cctcaagttg aggaatgaat gtcaatcatt 120  
 cccagcttgg aatgaagaan atggaatgca cctggagaaa aagcttttgg gatgatgtct 180  
 gttaatgggt tggcagaaga aatangaagc aacttgataa gaccagagag taacttttcg 240  
 cagacaatat gacaatcaat ctcaatatat tttattcttt c 281

<210> 8269  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 8269

cacgagagct tccgttggtc attttcgaac gtctctatat gtgatgcgcc ttaatctaac 60  
 atccgtgtga aaagatatga ccatctgaat ttctcaagag cttacgtagg tcaattatga 120  
 gcctctcgac atattatgcg cccgaatcgg acatccgttt aataagttga gaccatttgt 180  
 atgtgtcgaa agctatcttg ggtcaattcc gagcgtctcg acatattatt tgcccgaatc 240  
 tgaccttcgt gtg 253

<210> 8270  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8270

accttctctt ccattggtnn gttcttcatt tttctocatg tatcttctca catgtcttgt 60  
 gataaatgta tntaatcatg ttcttttagag tttccaccga ttaaacaatcc gagtaaaaag 120  
 ttattgtcgt tntgaattgc tcagagcttc tattntcaat tntgagcttt tcgatataatt 180  
 acgggactga atcagacatc cgtgtaaaat gttattgtcg tttcaatttc ataggagcct 240  
 tctattttaa tttogagcgt ctgatataat tacagtactt aatcggacaa ccaagtataa 300  
 agttattgtn cgtttgaatt gatacagagc ttcgttttca atntggagcg tctcgatata 360  
 tt 362

<210> 8271  
 <211> 374  
 <212> DNA

<213> Glycine max

<400> 8271

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ttgaattaag atattccaaa ctacttacc aattaaaaat 120  
ctatttcact ttttattcaa gttataaaat cccttaacaa tgaacttctt aaatattaat 180  
tcaaataaaa aaattttgaa tatgaatata aagcaataat aaacaaagga gtttaagaga 240  
agagaaagtg caaactcaga tttatactgg ttgggccaca cccttaatga attgagcact 300  
caaataattc cttaatgaat tgcaattgaa ttggccaagg aattcttaag aggataaaat 360  
gattttgctc tttg 374

<210> 8272

<211> 243

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8272

gtcttctctt cttagagttg tgattaaaga gaatataaag agctgggaag aatgtatgtc 60  
tcatgttgag nttgcataca atanngtgt acataacact acataacact ctccatttga 120  
agtagtgtat ggttttaatc ccttgactcc tctntatttg ttaccattgc ctaacatttc 180  
taattntaag cataaggatg cacaggctaa agtngagtat gtgaaaagggt tgcataaaca 240  
agt 243

<210> 8273

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8273

ctcggacact ccatngacta gtctatcgat gttgggcata aggtatgcat ctttggggca 60  
cgccctattc agaccagtat aattgattca cannttgcca ttttcattna gccttttgac 120  
catgacgaca ttggcgagct aggtagaata tctggcttct ctgatgaagt tggcattgag 180  
gagctngtcc acctcttctc taaccgattt gtatcattct tctcccatct tctctttata 240

tggtgatacc agtttggcct ggggacagat gatgagctng tggcagataa tgggtggggtg 300  
 gattccctac atgtcagaag gctatcaagc aaacagggtcc gtgttctctgt gtaggacatc 360  
 aactatgtgt ctgtgcttat ggggtggtgag gtcctactg 400

<210> 8274  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8274

aaaacgttgt ttttacttca aaacccttg aactacttca cattgactta tttggtcctt 60  
 cgaaaactat ggggttttggg ggtaattact atgtcctagt tataatagat gattactcaa 120  
 ggttcacatg gactttatatt ttgaaaacca aaagtgaagc ttttgatgct tttcgcaaac 180  
 ttgccaaggt gattcaaaat gaaaaaggct tcaacattgt ttcacttata agtgatcatg 240  
 gaggtgaatn tcaaaatgag tattttgaaa cttttgtgaa aaaaatgaaa ttcaccataa 300

<210> 8275  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
 <400> 8275

agcttgaagg caaactggat gcattgggta acttggtaac ccagctggcc ttgaaccaga 60  
 aatttgtacc tgttgcaagg gtctgtggtt tgtgctctc tactgaccac catacagacc 120  
 tttgcccttc catgcagcaa cttgaagcaa ttgagcaacc cgaagcttat gctgcaaata 180  
 tttacaatag acctcctcaa cctcagcaga aaaatcaacc acaacagaac aattatgacc 240  
 tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tgggtccagcc 300  
 ctcagcaaca acaacaacag cct 323

<210> 8276  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8276

agcttgtaat cgattacaca tatactgtaa tttattacca gaggagtttt tcagaaacca 60  
 ttctcaacag tcacatcttt ctgtgtgggtt cttgaatggc tatcataagc ctatatatat 120  
 gtgacttgag acacgaattt gctaagagtt tttcaaaaca aaatgggtctt atcctcttaa 180  
 aaagcaaadc gttttatcct cttacaaatt ccttggccaa attacttggtg attcaataaa 240  
 gaattatttg agtgctcaaa tngttcaatc tatctctttc aagagagaat tcttcttttc 300  
 ttcttcttca ttctgaaaag ggattaagag accgaggggc tctttgtgtg aaagaattct 360  
 aaaca 365

<210> 8277  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 8277  
 agcttgtaat ttattacaca aggcttgtaa tcaattatca gaagttttta acgttttata 60  
 atagccttca gaaatttgaa tttaaatttt aaagcctgta atcgattaca acttggtgat 120  
 aatcgattac cagaaatgaa aattcaaatt tcaattctga agagtcacaa ctcttcagaa 180  
 tctaactgtg taatcgatta caacagttat gtaattgatt accagtaagg aattttcgaa 240  
 aataactccc aagagtcaca actgttcaac aagtttttga atgaccatca aaggcctata 300  
 gataggtgac ttgggttaca aaattcctta gagtttttct gaacaaattg tcttatcctc 360  
 tcaatac 367

<210> 8278  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 8278  
 tgtgcatata gagctacaga tgtcttgcaa ttgatacata cagacatttg tgggccattt 60  
 catacacctt catggaatgg tcaacaatat tttatatcat tcatagacga ttactccaga 120  
 tatacatact tgtttcttat acatgaaaat tcacaatctc tagatgtgtt caaacattt 180  
 aaagttgaag ttgaaaatca actcaacaaa agaatacaga gtgtcaaadc tgacagtggg 240  
 ggtgaatact atggtagata cgacggttca ggtgaacaac g 281



<210> 8279  
 <211> 182  
 <212> DNA  
 <213> Glycine max

<400> 8279

agcttgccat tgaacaagtt cgagattcta ttttatcacc gagccgtgca ctgcattgg 60  
 taccaccttg agaggtttgg gtttggtgtg ttaaaagggtg acaagagaaa tgagtcaaaa 120  
 ttctcaagtt ggattcacct aagggtgtgt cttgaagggtg cttatcatgt cctggatgag 180  
 tc 182

<210> 8280  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8280

tccgtatgag tagaaccctc accattaaca ctagatgaag aacgaagact catgttggtt 60  
 cttaaagtgt ggttctttct ttgttgggtg tngaaaacaa aaggtaaaag aaactacggt 120  
 tgaaactagc caaaataaac actaaaagag gtgtgaaaga taatgtaaaa actaattggt 180  
 aaaaagcaag ttatctangt ggttngacaa tggaagataa agganattta aagcaagcta 240  
 gatagtttcc tatgtgaagg cttagatgaa cccttggagg tcccaactgg ctcttcgctt 300  
 agtctacacn ggttacacta agctattaca cacaaataga ggtttgggtg gtctcttgga 360  
 gactctcaat acacncctga agaattgtcaa atac 394

<210> 8281  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8281

tggaagctcc taatatctcc cacactntgt ggggtgngcc attcttggat ggtcttgatt 60  
 ntctcagggg ccacttggac cccatttcta ccaactaana atcctaggan aactatatta 120  
 tctacacaaa aagttcactt ctctatattt gcatagacca acaacactgg gataacacat 180

gggcttaggc tctcttagac ccagcccttc tccaaacaat cttaacctga gtctctatct 240  
 ccttagtctc ctgagagggt tagtcctata ggctatccta ttaggaaggc ttactcctgg 300  
 gaactaaatc tattggtggt ctattctcct taa 333

<210> 8282  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 8282

gcttgaaatt gagcaacaaa agctctcgag atatcttata tggtcataac ttttaactcg 60  
 gaggtccgat tcaggcgcat cacatataga gacgctcgaa attgaacaac ataagctctc 120  
 gacatattca tatagttata acttttaact cggagggtccg attcaggcac atcatatgtc 180  
 gagacactcg aaattgaaca atggaagctc ttgagcaatt caaatgggtct taacttttca 240  
 ctgagaggtc cgattcaggc gtataatata tcgagacgct tggaattgtg caacggaagc 300  
 tctcgtgaat ttcaaattggc cataactttt cacttggagg tccgattcaa gcgcatcaca 360  
 tatagagacg ctcgaaattg aacaacgtaa gctctc 396

<210> 8283  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 8283

agctttaact taatcaatgc aatttccttt tgtgcttggt cattccaccc aaacgcaccc 60  
 ttcttcaaac attcggtcac aggacttgct atagtgcata aattctggat aaagcgtcga 120  
 taaaatgatg caagaccaag gaaagatctc acctccgaaa ctggtgtagg gctcggccaa 180  
 gtcttgatag catccacttt tgtttgatca acggatactc catctttaga caccacatat 240  
 ccaagaaaca ccacactttc aaccaagaaa tcacactttt ccctcttccc atagagattt 300  
 tgtgctctta ggggtctcaa tatttgcttc aaatgagtga aatgctcctc tatagatttg 360  
 ctata 365

<210> 8284  
 <211> 400  
 <212> DNA

<213> Glycine max

<400> 8284

tcttatccaa ggctcatctt ggtggtgaag ctctcttctt tcatggctta ttccttagtg 60  
gatggtgcct cctctcacct cttttccttt ttcttccgct gcatcccat ggtggaaaat 120  
caccattaaa ggacctcatt gaagctcaaa gatccagcct ccatagaagc cccacaagca 180  
agcttccatc agaatgttcg aatgcggccc ataataaatt gaaacactca aaattgaaca 240  
cgaatgctcc aagaaaattc aaatggccat gacttctaac ttcgtatccg attgcaaccc 300  
ataatatatt tagacgctca aaattgaaca tgaaaggttc gagcaaattc aaatgaccat 360  
aactcttact ttcgtatccg attgcagact attaaatata 400

<210> 8285

<211> 398

<212> DNA

<213> Glycine max

<400> 8285

tgtcaccggt cgcaaccctt ttgggtttat gcctttggtt atgggaaaga gaagcaacgg 60  
tgttattggt ttcgcttcta aaacttgctt aacctaattg aagcgattta tgagaggag 120  
gtggttgtgc cgctgagaa tttctacgac gacgtogaag ctgcaagta cacctctttt 180  
tctcatattg ttcaaattca ggtttttccc tttttattct tctcattccc tattcaattt 240  
tctttcgttg tgaaattcat tcattcatta atttctctat gccaaataag tggcactatc 300  
aaagagagct ctgcaactac ttgctttgcc tgatgaccac gttcctaaat tactccttga 360  
tatcagtaat ttttaatttaa ttcaatttaa ttaataatc 398

<210> 8286

<211> 394

<212> DNA

<213> Glycine max

<400> 8286

tctagataaa gtaactcgtc ttctctctat tttttgtttg agggcacacg taacacaagc 60  
tgaacttcat tgtcagttcc atgcactgtg ggctgggggtg attgaggagg ttcgagttca 120  
aagggataaa tgttttggat ttgtcagata caacactcat gacgaagctg cactggccat 180

tcacatggct aatggaagac ttgttcgtgg gaagaatatg aaggtgagaa ttctttcact 240  
 tgatgcttat ctgggtcaact aattaattgc tattctttgt tgaggctgat ggttgcccca 300  
 tataataatg cctattgcct agtaaggatg gtgatctctc ttttttttct tcttgccaat 360  
 ggctgatcac gttactcgca tgtagagact catg 394

<210> 8287  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 8287

tagctacaca cccctataa tagctaactt tattccctcg acaaaaaaca tgaaaataca 60  
 aaaaaaagtc cttactacaa agactactca aaatgccccg aaatacaagg ctaaaaccct 120  
 atactactag aatggccaaa atacaaggcc cagacgaagg aaatacctat tcaaataattt 180  
 acaaagataa gcgggctcat acttagccca tgggctcgaa atctacccta aggctcatga 240  
 gaaccctagg gccttccttt ggatctctag cccaatctac ttggagtttt ctaccaaatg 300  
 cccttgcggg gtaggattgc atcacatagc atgcccgttg gcgtgcgttc caaacgagtc 360  
 ctcatggact tcctcgatca tgtgggccgc tcatgaa 397

<210> 8288  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 8288

tctatagaag gttcgttcct aatttctcta caatttcac acctctcaat gagctggtga 60  
 agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct ttgctcaaag 120  
 aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg ggagtggag ctgtattgtt acaagggtggg caccctattg 240  
 cttatttttag tgaaaaactt catagtgcc cctcaacta cccacctat gataaagagc 300  
 tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaatttg 360  
 tcattcatag tgatcatcaa tcacttaagt acatta 396

<210> 8289

<211> 362  
 <212> DNA  
 <213> Glycine max

<400> 8289

agcttccatt ttcaatttgg agcctctcga tatattacgg gactctattg gacatccgag 60  
 aaaaaagtta ttgtcgtttg aatttggttc gagcttccgt tttcaatttg gagcatctcg 120  
 atatattacg agactcaatc ggatatccga gttaaaagtt aatctcgtct gaatttgata 180  
 cgagcttcca tttttaattt ggagcctctt gatatattac gggactctat tggacatccg 240  
 tgtaaaaagt tattgtcgtt tgaatctgat acgagctttc gttttcaatt tggagcatct 300  
 cgatatatta cgggactcaa tcggatatcc gagttaaaag taaaatctcg tctgaatttg 360  
 at 362

<210> 8290  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 8290

actcttataa tactcacgct ctaaccgcct gagatctttg ccttaacaca ttggatggtt 60  
 catcctttgt ggtataagta gagggtagat ctacttgggt ttgactgaga acaagagagg 120  
 gtacatctct tgtggatcag ttctagtga gggtagatcc actagggttt cgaagagaac 180  
 aaggaggagg acatcccttg tggatctttg cttgtaaaag gatttttaca aggttgaaag 240  
 aaatctcaag gaccgcaggt ctcttgggga ttggatgtaa gcatgggttg ttgccgaacc 300  
 agtataaaaa ctcttgtgtg ttgtctcct tcttccctac tcttttaatt ttgctgtgc 360  
 atttaatttc cgcttttact ttctgttaag tttctcttat actccttatt ctcttaacaa 420  
 ctt 423

<210> 8291  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 8291

agcttttgag gaatttttca acttctttgt ccataaattg tgttttgtag tccgagatca 60

aagtattagg aattccaaat tggcataaaa tgttcttcaa aatgaacttt cgaacattgg 120  
 ttgtcgagat ggtggcgatg ggctcggctt ctatccactt ggtgaagtga tcaatgccca 180  
 ctaggaggta ttttacttgt ccctttgcta ggggaaaagg tttgagtatg tctactcacc 240  
 aaatggcaag gggcttttggg gttactatgt tgtgtagctc tttgatagac atggaagaga 300  
 tgttgttgaa tttttgggat tcttccatt tcttcacatt ctatataatc ttttctca 358

<210> 8292  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 8292

agcttaataa atctatatat ggtttaaaac aaacctttcg tcagtggtag ctttaagtttc 60  
 atgggataat ttcttcattt ggttttgatg aaaaccccat ggatgaatgc atataccaca 120  
 aggtcagtgg gggtaaaata ttctttcttg ttatatatgt agatgatatt ttacttgcag 180  
 ccaatgatcg gggtttgcta catgagggtga aacaatttct ctctaagaat tttgacatga 240  
 aagatatggg taatgcatct tatgtcatca acattaagat tcatagagat agacctcaag 300  
 gtattttgag tctatcacag gaaacctata ttaacaaaat tctagagaga tttcggatga 360  
 aaagt 365

<210> 8293  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 8293

gctattggga ttgagaaagc ttaaatggat tgtttatttg atagtgcacc gataccggta 60  
 actggttaat aggatcttga gaggattgag ggcataata ttgtatttgg aaagacccta 120  
 aagaaggaaa aaagtaaaac ttccatatgg aagaagaggt ttatattgtt tggctctcca 180  
 tactggtcaa atttagatgt caaacattgt attgatgtta tgcattgtga gaaaaatgtt 240  
 tgtgatagtc tcatcgacat gcttcttaac attcaaggca agagaaatga tggtttgaat 300  
 actcgccaag atctagttga gatggatata tgagatcagt tacatccaag gtctgatggg 360  
 aacagaatat acttgctcc agcttgtcat gctttgttg 399

<210> 8294  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 8294

agctttggct aagttcaaac actacctatt ttgccataaa ttcattattc atactgatca 60  
 gcaaagcttg aaggaattat tatagcaaag gttacaaact cctgagcaac agtagtggtt 120  
 acccaaattt ttgggatatg attttgttat tcagtacaag ccgggtaagg agaattattcc 180  
 tacggatgaa ttgtccaaaa gtttttctat ggcattggtc gaagcagtag gagtatggat 240  
 gactcaagta gcaacattaa tgaaggagga tgctattttg gctgcacttt ataaacaatg 300  
 tatagaggga actgtgtcag gaactaaata tacagtgaat gatggattgt tgtttttg 357

<210> 8295  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 8295

tgtccttcgt ttgattccaa atgggtttatt tcttaatggt cactgttgta caagctcaag 60  
 tgcacacatt tttcatcaag caagggtcca caatggtacg ttccatagga ccacatttcc 120  
 aagtcccacc agcatcgctc caaggcctag ttggagtcac aatactcttt gctgtgcat 180  
 tctatgaccg tgtctttgtg ccactagcaa ggaaaatcac agggaaaccc actgggataa 240  
 cagtgtaca aagaattggg gtaggacttt tcttgtcaat ccttaacatg gttgtgtcag 300  
 cacttgtgga ggccaaaagg gttggtgttg caaaagagag tggcctaatt gatgacccaa 360  
 aagcagtgtt accaatcagc atttgggt 387

<210> 8296  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 8296

agcttctaaa caatgggtttt gtttttctcc actaccctat tcaccattgg ttaagggtgt 60  
 tccttagtca ttctactagt gtatgtagat gacatcatcc tgtcaggacc aaattttgcc 120

tctatgcaag ctattcagac ccaattgcaa tctatgtttc aattgaagat ccttggcact 180  
 ttgaaatatt ttcttggtt agaaatagct aaatccaaca gtggtatctc actctcccag 240  
 agaaaataca ctctatctct tttagaagat gcatgtttct tggcatgcaa acctttcaat 300  
 gaatcccaac ctgaagctca atcttcatga tagagactta ctacctgatc 350

<210> 8297  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 8297

agcttctaca ttcaatttca agcttttcga tatatttctg gactcaatcg gacatccgag 60  
 taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
 atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttgttt gaatttgctc 180  
 agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtagtt tcaatttgct cagggcttcg gtattccatt tcgagcgtct 300  
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360  
 tcagagcttc tacattcaat ttcgagcttt tcgatatatt ac 402

<210> 8298  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 8298

agctttgagc aaattcaaac gactataact ctttactcgg atgtctgatt gagtccctga 60  
 atatatcgag acgctcgaaa tggaataccg aagctcagag caaattttaa cgacaataac 120  
 ctttttactc ggatgtctga ttgagtcccg taatatatcg agatgtctga aattgaatgt 180  
 tgaagctctg atcaaattga aacgacaata aatttttact cggatgactg attgagtccc 240  
 gtaatataat gagacgctcg aaattgaata ccgaagccct gagcaaattc aaacgagaat 300  
 aactttttac tcggatgtct gattgagtcc cgtaatatat cgagacgctc gaaattgaat 360  
 ac 362

<210> 8299



<211> 391  
<212> DNA  
<213> Glycine max

<400> 8299

ttccagggtt ggtttatgat gacgggcttc ttttttgggt acacgtggca ggatttccga 60  
gctggataca gaaaaagggtg gaggaggcac agttagtgtg cgcggagggt gggaaggaac 120  
tacggttatg tagcagggat tctccgtacc ttggaaacac gaatgttgcc acgtgtcacg 180  
agctgaacac gtatctgcac ctggttgatg gcttcgtcag ctccacgtgt cccttcagag 240  
cctccgcgaa gaggttcctc cagcgttgac agccaccgta gtgtggtgct ctaacccaaa 300  
ccattaacag aaaagataag ttttcatggg aaaatgtaat tattagctgt agttgtctaa 360  
attgttgcac aaccatcgtc attgtagtta g 391

<210> 8300  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8300

tgaccaggaa ttatttgtat tggttggatg ttgaattctg gttgttcctg gtgcggagat 60  
gatggtacag cgggtgaacc aggagcggca gtttcttttg gtgaggaagc catggaaaaa 120  
cagagcgttt ggaatgattt cgtaaacttc agaaaactat tgggaaatgc tggagaaaac 180  
acgaatgcca agcagatata aatttgaatg aagaatgtag aggggcgtgt gaagcaacgg 240  
tcgaatttgc tttgtggtga acgtgctatt aatgttaagt gattcgtttg ggcacgttca 300  
gattgcagta gctgctataa ttcctctagc agacaaatgc ccagcttgcc cctcagttnt 360  
tcaaactgat ttgcatcaa agcctttgtg aaaat 395

<210> 8301  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 8301

agcttgcttc tacaccactt attgagaaga tgagtcaaga agaagctcgc caccatagga 60  
agccatggat aagagcttga aggtaggaga agatgagtgg agggagaggg agagaagaag 120

cacagaattt tgtgcctcaa atgaggtctg aactttgaag tgtaattctc aaatgatcaa 180  
 agttgaaaaa atgcacacac atggcctcta tttatagcct aagtgtcaca caaaattgga 240  
 gggaaatttg aatttcaa atcacttgaa tttgtggagc caaatttttg agccaaaatt 300  
 tcactaatta tgattagtca attttatcta tggttcagcc cactaatcca agatcaactc 360  
 caagattctc c 371

<210> 8302  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 8302

agctttgggt tccgatggccc ctttgacatc tattccccac atggaaaaag gacaaggggc 60  
 agacatgaca ttcaaaggat gtggcggaac attgacattg tccgtgtatg cttgacattt 120  
 atggcatttc cttacatggg cgcagcaatc gctttccata gtgagccagt aataacctgc 180  
 tctaaggatc ttcttgcca tagcatgcct attggcatgt gtcccaaag aacccccgtg 240  
 gatttcctca atcatgtagt ttgcctcttt ggcattctatg catcgagga gggatcatgc 300  
 gtggtttcgt ttgtacagga tggtagcact cacaagaaa ccagtagcca atctc 355

<210> 8303  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 8303

tgcaactctt tggcatggc atcataaatc tgccaccacc tcctgtgagc cgagtcactc 60  
 gcgaaaacat ggcgatcctg catgtcccag ttacaatcat aatccctata acacatccac 120  
 ggcttcagac ccaggtagtg tacggcgtag acgtcatcag ggagctcgtg catcccatgg 180  
 ccactactag gaaaagtctt gagctgattc accttggccg gcaaacggtg ccaccacgtg 240  
 aagatttcgt tgagaaagcc ttggtcgccg ccgttgtaag aacgcacctt ggaagtcacg 300  
 ttcatcattt tccggaacat gcattgcgac ggctcgatta ccatcaagcc cgagttgaac 360  
 agcgttttct cgttaggtgc ggctgataac tg 392

<210> 8304  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 8304

agctttttct ccctttcett tgttcttctc ctctccttgc gttcttcttc ttcacgtttt 60  
tcctttttctt cttcttcaag aagcttcacg tgtagacaaa atcatgcaat tgggatttag 120  
aagtgcattt taaaaataga aacaagagct ttttttcctg tccccaacag cttttttcct 180  
aaaagcaaaa aactaagacc tgcttttcca acgtaatgat ttctttgcat gctacatgca 240  
ctcgatcctc cagcagtttt agtgcaagac aaacgaatat gctatgtgca ttttggcgtg 300  
ctgtcccttc tctgaaagcc ttttcaacct gaaaggatag tacacagtca gtggt 355

<210> 8305  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 8305

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atggaacctg acacctgagt gttcatgttt tcattgttga actgctgtat gtttctgtgt 120  
tttgtgttta cagcaccata acttaacaaa tcaccaatct gcaattacct gggtgtgata 180  
atgacagggg tgttgtttga agctcaatct ttgcataagg aggcctttgt ttccttctca 240  
gtctcgttgt caatagaacc ggattacatt cccagtatta tttcaacagc aaaattgtta 300  
cttaaacttg gaatgcaatc acttccaata gcaagaagct ttttaataaa tgctttgaga 360  
ttagacccca caaacatga tgcattggtt aaccttgg 398

<210> 8306  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8306

agcttgtgcc tctttacgtc tgttatatta atgnancatc caaagaccct tatgtgcttt 60  
gctgatgggt tcttcccggt ccaagcttca attggagtct tgtcttttac agacttaatt 120

ggacatctgt tgattatgta aacagcagcg tagactgctt cagcccataa tgtgttaggt 180  
agacccttct ccttgagcat tgatctaacc atttccataa ctgtgcgatt ctttctctcg 240  
aacactccat tttgttgagg agaatatgcg actgtaagtt gtcactcaat gcctttatcc 300  
tcacaaaaac tttcaaactc gcgagaagtg tactctttgc cgcgatcac 349

<210> 8307  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 8307

ttgaggtagt ttggttcctt taaatatttg catctatgat tgtttgctat tgtttatatc 60  
ttgaattgta ggtattgatt taaacatctt taatttctgt gcagtatggt tgttactgaa 120  
cttctcccaa atgatgctaa gagagctctt gaggcattat gcataccagt cataactcct 180  
ttacaggtta gtgtccaatc tgcagagata tttttagtta tacattttct tttgatgttt 240  
ttgctttcta taatttgctt catcaggaag ctatcaatca aggtccagaa agcttgagta 300  
aaagaccttc tcgtcagtta acagttcata ttgatcgatt tgcttacatc tttagggtgtg 360  
ttccataatt aatattgtca tgtctatgca ccct 394

<210> 8308  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 8308

tagcattagc atgtgttgac actggatcac tttttttggg tacgtgtttg ttacttttagt 60  
ggatcctatc aaagaacctc cgcttataac tacaaacata gttctgtctg tttttgttgt 120  
gtattgtcat gtggacaaag ttccatgcca tgtttgagac atctaagatt ggcgtcttgc 180  
ctttgccag tattatTTTT tgcaacatct tcctttctta accttgatc tacctcgaaa 240  
ttttaatatg gcaacttact cttgtggaaa ataattttta agaattaata taacacttta 300  
aaattaaatt tagaatatta aaaaaatata aaacatagat ataattcttt aggtgttatt 360  
gatacttttc tcctgttaga attaaaatcg tact 394

<210> 8309

<211> 360  
 <212> DNA  
 <213> Glycine max

<400> 8309

agcttgaaga atgtatatac aattggcagt ggggatgatt ctgcaccaa gttacctgat 60  
 cgagagcccc aaaaggcacc taatgggcat gctgttatgc atgttaagga tatactgcct 120  
 cgaggcctta tcaactctgg gaatctatgt tttcttaatg caaccatgca ggctctcttg 180  
 tcatgctcac ccttcgttca tcttttacag caattaagaa cttgcaacct tcctaagggt 240  
 agtttttctg ctgctgcatt tcaactatta actaatactg ccatctactg gttttagctt 300  
 aacttatata tggcttaata acattaaagg aataaagacc taatagctgt attatgcatt 360

<210> 8310  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8310

agcttatacct ccaagccaga aagttccaaa acctcccacc aggtccaccc tctctcgcca 60  
 taatcggcaa cctccactgc gccccctcca tcgcaccttc aaagccctct ccaacaagta 120  
 cggccacgtc atctccctat gggtcagctc ccgcctcgtc gtcgtcatct cctcccaaac 180  
 cctattccaa gaatgcttca ccaaaaatga cgctgctctc gccaacgcc ctcgcttcct 240  
 ctccggaaaa cacatcttct acaactacac aaccttaggg tcctccccct atggcaagca 300  
 ctagcgcgtg aggggggagga ggacngaggg tggcgaagga ggagggaaaa gggg 354

<210> 8311  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 8311

tccaaccaca gaaatttcac ccaaattaga gttactttta ttctaaaaag aactacagag 60  
 attatatact aatactaaac ccacaaatca aactaatgtt ttgcaggatt acaacgcaaa 120  
 aatttcagat tttggcttgg cgaaattagg gccttcgggt ggagattcac acgtgagtac 180  
 gaggatcatg ggaacatatg gctatgctgc tccagaatac gttgcaacag gtgatcatct 240

catcttatct aaacacataa atagagagat ggtttgtgaa tatgctagtt gaagttgaaa 300  
ctaattgttt tatgattcaa caggacacct ttacgtgaag agtgatgttt atgggttttg 360  
tgtggtgctg cttgaaatgc tgacagggat gagggcaat 399

<210> 8312  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 8312

agcttccatc acaaacactt tatggttaga aggttggttag aaataatatt ccattgtttc 60  
ttcaggataa ccaatgaatc tacacttatt agaccttgcc tcaagtttat ctgtttgcaa 120  
tcttttaaca taatcagggc aaccccatat cttgatgtgt ttaagacttg gtttctttcc 180  
tttccatatt tcatatggag ttgtagagac tgcctttgta ggaactttat ttagcaagtt 240  
ggttgttgct tctaaagcat atccccataa gtttaatgga agatcgggtga accccatcat 300  
ggatcttacc atatctagta aggttcgatt tcttctttca gataccatcatt tgtgtt 356

<210> 8313  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 8313

tctggttaagg gctgcaaagg gtccatattg tttatgtcaa aaactttcaa aagatataat 60  
taaaaatagt agaggcaata aaaaatgcta aatgatctga taagcacatg cataagacta 120  
ataagtttgc tgaagttcaa ggctgaaaaa catggaccac aataagtga taaaccaatt 180  
ggaaacataa gaggagagca cctgctattg ggatcataat agaatccact gatagagcca 240  
tcgctgcaag agaaacaaat gtagtaaaat ccggttatgg ttaatccaca gtcggttcca 300  
acattcaca agtactgtc cttccacctc tgcaacaaag aaataagtgc gatttgtaaa 360  
ggttctcatt tcagataaat actttttttt tcaac 395

<210> 8314  
<211> 351  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8314

agcttagact gagttcagcc tactcatcct cagactgatg gccaanctgn nccaaccatt 60  
cagtcattgg aggacctttt aagagcatgt gtcttacagc agaaggggaag cttggagagt 120  
tttcttccat tgatagagtt cacttataat aacagttttc actctaccat tggcatgact 180  
ccctatgaag ctttgtatgg tagaagggtg aggacacccc tatgttggtt agagcccgga 240  
gaaggcctca ccttatgacc agaagtggta cagcaaacca ctaagaaagt taagttaatt 300  
taggaaaagga tgagaactgc tcagagtagg caganaagtt ttcatgataa g 351

<210> 8315  
<211> 357  
<212> DNA  
<213> Glycine max  
<400> 8315

agcttgtgtc gcactttcaa ctgctgaagc taaatatata gttgcagtaa gttgttgtgc 60  
tcaaagtctc tggatgaagc aataacttga agactttgga gtacatcttg atcacattcc 120  
tatacaatgt gacaacacaa gtgttatcaa cctaataaaa aactatgtca agcattctag 180  
gactaaacac atagaaataa ggcattcttt tcttagagat catgtgccta aaggtgacta 240  
ctacattgag ttcattgata gtgagcatca actagcagaa attttcta aacctcttga 300  
tagagatagg ttctttttca taaaaaatga actaggcata ttgaattcat ctagcat 357

<210> 8316  
<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8316

agcttccgag ctgatgctct cttataaaaa ttnttcttat nngntttcat tcttatgtga 60  
ccaaagcaca gtttcaaatt tgggcacttt agatgtgtca cacaatcaaa taaaggggca 120  
actgccagat tgttggaaat cagtaaagca attactgttc cttgatttaa gcatcaatat 180  
attgtcaggg aagattccta tgtccatggg cgcccttgtt aatatggaag ctttggtttt 240  
acgaaacaat ggtttaatgg gtgagttgcc ttcttctttg aagaattgca gcagtttatt 300

tatgctggac ctgagtgaat atatgttgtc ggggtccaata ctttcatgga 350

<210> 8317  
<211> 398  
<212> DNA  
<213> Glycine max  
  
<400> 8317

taatacccaa aatcacatct acaggaccaa gggtttcttca tatcaaaatt tctagacaag 60  
aaagacttca catcatttat gaattgcata ttactaccaa atatcaatat gtcattccaca 120  
tacaaacata aaatgacaca tccattatca tcaaattggtt tcacatacac acatttatca 180  
gtattattga tttgaaaacc atacgaaaga acaacttgat caaatttttc atgccattgt 240  
tttggagctt gtttcaaacc atataaagat ttaacaagtt tgcaaacttt cttttccttc 300  
ccctgttcta caaagccttc aagttggctc atataaattt cttcttctaa ttcaccattt 360  
aaaaaggcag tttttacatt catttgatga attttctaa 398

<210> 8318  
<211> 353  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8318

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tttccattgg aaattacaat gataaggtgc tttgtgatgt tgttctata gaggccagcc 120  
acttactctt ggggagacca tggcaatttg ataagagggc taatcatgat ggtttcacca 180  
acaagatctc tttcacgcat caaggcaaaa aagatagtg tcaaaccatt gagtccacaa 240  
gaagtgtgtg aggatcaaag aaaaatgaga gagaaaattc ttcaagaaaa gagagaaaaa 300  
gaaaaagaga gccaaacact tgagagttca aaaagtgagg acaaaaagag gga 353

<210> 8319  
<211> 359  
<212> DNA  
<213> Glycine max  
  
<400> 8319



agcttattct ataactacca atttccacag gtaatcgatt acaacctatt gtaatcgatt 60  
acaatggcct tgttctacgg taatccatta tagtgagtgg taatcgatta ccagacccta 120  
aaatatgagt ttcaagtcta aaaatcagga caaatatgtg attataagca atcaatatac 180  
aattaaacaa tcaaaaacat ttatgagtat gaaaaattac aaaaaacaac catcaaagtc 240  
aattattata aacattcaaa gtaatcaatc atcataaaca agcaaaataa ccattaaaaa 300  
cagtcattat aaacaatcaa aacattataa gcaaacaaag tggctaggaa tctaagtta 359

<210> 8320  
<211> 423  
<212> DNA  
<213> Glycine max  
<400> 8320

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cagtgtaaag ttatgaccat gtgaatctct cgagaggtgc ctatgtttta ttttgagcga 120  
gaggatatat tatacgcttg aatcggacct cagtgttaaa agctatgacc atttgaattt 180  
cttgagagca tccgacgac attttcgagc ggcgctatat gtgatgaacc ttaatcggac 240  
ctccgtgtga aaagttatga ccatttgaat ttctcgagag cttccgtcgt tcaatttcga 300  
gcgtctcgac atattatgcg cccgaatcgg acatccatgg gaaaagctat gaccatttga 360  
atttctcgag agcttccagc gttcaatttc gagcgtctct acatatgatg cgcccgaatc 420  
gga 423

<210> 8321  
<211> 395  
<212> DNA  
<213> Glycine max  
<400> 8321

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gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaacctc caaagtgaag 120  
atgtccagat tgcaactatt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcc atgcttgcac tgccttggga 240  
gaaaggatga caaacgaaaa gctggtaaga aagatcctca gatctttgcc taagagattt 300

gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggtt cccttcaaac ctttgagcta ggact 395

<210> 8322  
<211> 349  
<212> DNA  
<213> Glycine max  
  
<400> 8322

agcttgtagc gacagccact cttacatctt attcatgaaa ggagagggaa gaggatccat 60  
ccttggtacc ttgttaagat ttttataata aaatgctgca ttctccaatc gggtattggt 120  
gatgagcgaa acaaagatt tttctcattc ttaacaatag tcatgccacc cttgttcaca 180  
accacttgca ctctactgac ccatgcaacta ttcaaaattg agtatgctat tctaccttcg 240  
ataagaataa gatgctatct acttaccogt tctgtatca caagactcaa tctcctttac 300  
gattgaacca ctagttaaaa gtcttgattc atcataattt acgcatgca 349

<210> 8323  
<211> 357  
<212> DNA  
<213> Glycine max  
  
<400> 8323

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tcaaagtctt tggatgaagc acaactaga agactttgga gtatctcttg atcacattct 120  
tctaaaatgt gacaacacaa gtgctattaa tctaaccaag aaccctacca tgcattctag 180  
aactaagcac atagaaataa gacatcattt tatgagagat caagtgtcta aaggtgacaa 240  
cttcattgag ttcatagata gtaagcatca aatagtagac attttacta aacctcttgc 300  
tagagatagg ttctttttca ttagaaatga actaggcata ttggatgcat ctagcat 357

<210> 8324  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8324

tttcttccat cataactctt gatcaatgta catgcataca ctatcaaac tcaaagatat 60

ttcattattc tcagaaaaag caacatcact tgtaactttc ctcacactat ttgtttctta 120  
tatcatgtct ttgagtgaga aaaatgataa aaagaaattht cttcaaagtc ccatccaaat 180  
cgattgagta acacaattat taaaatagaa gaaaattttaa aataattttg ttcactctta 240  
atttatataa tctgcactaa taaaaataga attatataat atgcatgtaa tcctaaagaa 300  
acgggactat taaaagaata tttaaaaaaa aaacatntaa aatcatgata agaattgtatt 360  
agtaatatta ttttaagaaaa tattaagtac tttggaaaaa atgtaaaata attatatctt 420  
tatgaa 426

<210> 8325  
<211> 582  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8325

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atcgagacgc tcgttattga aaacagaagc tcgtagtaaa ttcaaagac aataactatt 120  
tactcggatg tccgattgtg tcccgttaata tatctagacg cttgtaattg aaaatggaag 180  
ctttagcaa attcaaacag gaataacttt ttactcggat gtccgattgt gtctcgtagt 240  
atctcgagac gctcgttatt gaaaacagat gctcatagca aattcaaagc acaataaatt 300  
tttactcaaa tgttcgaatg tgtcccgtaa tatatcgaga cgctcaaaat tgaaaacgaa 360  
agctcgtagc aaatgcaaac cacaataact tttaactcgg atttccgatt aagtccagta 420  
atatatcgtg acgctcgaaa ttgaaaacat aagctcttag aaaattttta cgacaataac 480  
tntttactcg gatgtccgat tggaaccggt aatatatcga gactctccaa atngaaaaca 540  
gaagctccta ngaaattcaa ctacaataac tttttactcg at 582

<210> 8326  
<211> 616  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8326

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ggacacaatc ggacatccga gtaaatagtt attgtcattt gaatttacta cgagcttctg 120  
 ttttcaataa cgagcgtctc gatatactac aagacacaat cggacatcca agtaaaaagt 180  
 tattcctggt tgaatttgct acaagcttcc attttcaatt tcaagcgtct agatatatta 240  
 cgggacacaa tcggacatcc gagtaaaaag ttattgtcgt ttgaatttgc tcagatcatc 300  
 tgttttcaat ttcgagcgtc tcgatataata acgggagtcg atccgacatc cgagataaaa 360  
 gttattgtcg ttggaatttg cccagagctt caattttcaa ttcgagcgt ctcaaaatat 420  
 tagagcactc aatcggacat cttagttaaa agttattgtc gtttgaatnt gctacgagct 480  
 tctattttca agtacgagca tctcgatata ctacgggtcc caatctgaca tccgagtaaa 540  
 aagttattgt cgnntaaaat ntctaagagc ttatgttntc aatttcgagc gtcacgatat 600  
 attacgggac ttaatc 616

<210> 8327  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 8327

tcttaaaact cactaaagaa gtcttgatgt tcctaccaa atgctattgc taaaatatga 60  
 ggaaattttt ttgaaatatt attctatgat tccaaaaagg tacaagttct aacaagaata 120  
 tattgggttaa tcataataac tttaagaata aaggagatat gtagatttgc gctaactata 180  
 gtggtataaa actctcaggt aacaccatga aattatggaa aaaggtgatt gagcataaat 240  
 taatagaagg gatgaggatt atcggyaatt aatttggttt tataccagga aaaggtttgc 300  
 aacagtagct tacatacagt attattgact tggaaaa 337

<210> 8328  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8328

cacctgangc atcaagcttc tatagaaggt ttgttcttaa tcgctctacg attgcttcat 60  
 tctctctatg aggacgagaa aaagaatgag gcatttacct gaggtgaaaa actagaacaa 120

gcgtttgcta tgctcaaaga aaagcgact aaggcacctg aactagctct tgctgacttt 180  
 agtaaaactt ctgagctaca atgtgacgcc tgtggagtgg gagtgatagc tgtattgtta 240  
 cgaggtaagc accctatttc tcatattagt gatgaccttc gtagtgccgc ccttaactac 300  
 cccacctatg ataaacagct ctatgcctta atgagagcac tccttacttg agaacattac 360  
 cttgctatca acgaattcgc cattcataca gatcatcaag cacttactta cattggaggg 420  
 caaagcaagg aagacatgat gcgtgcataa tgggt 455

<210> 8329  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8329

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 aatcaaaagc ctctttgcat ttatcattaa agtcaaactc cacctccttt tgcaaaaagt 120  
 tggaaaatgg aagggctact ttgctaaaat ctcttataaa ggcctatag aatcctgcat 180  
 gaccaagaaa agatcgcacc tctcgcatgc aagatgggta aggcaattgt gaaataacat 240  
 aaatttttgc aggatctact tcaatgccct tattggaaat aatgtggcct aaaattatac 300  
 cttgctcaac cataaaatga catttttcaa aatttataac aaggttagtt tcagtgcac 360  
 tattcaaaac cttntccaga ctatccaaaa aaatatcaaa agaggatcca tatacagtga 420  
 aatcatccat aaacacctct attcaatnnt ctaanaaatc actaaaaata ctgatcatg 479

<210> 8330  
 <211> 703  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8330

aaagacaata cttcattcat aacatcaaat aaactagata gtcatccaca atattcaa 60  
 aaaacatata tgaataatta aaaaaataa aacacaatac caaatgtaag tacataccac 120  
 tagtcatata tcattaaagt aattaagttt aagacacata atcataaaca accaagagca 180  
 agtcaatata atcataatgt tcagtcatac taagcaagta ttaaaagaaa tactaagtat 240

tcaaatgtca taaaaacata gtcaaataca aggottaaaa acaaaatata attataatct 300  
 aaatatatta tcagagaatc aaaacttaat tctaagtaac aaaaattagt tatgaacaca 360  
 tacatggtaa ctcattactt atctcgatta attaaccact agattttaag tatcaaataa 420  
 caatcatcaa cacatatcat agtaattatt tactttaattc aattattcta acatgtcaaa 480  
 acattnttta ttttttaaca gaatctaata atcttagaaa caaaacataa gcaattcaag 540  
 cattaatcag atcagacaaa attcaattaa tcatacatat ttcaaattaa aactaaatat 600  
 nagtatttaa acatttgtaa cacaatcaaa caattttcaa caattatttt ctattagcca 660  
 caaaaacaac ttaactaaga atactaatca ttccttaatt cat 703

<210> 8331  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8331

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 agtggccaag gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagtcaa 120  
 gatgtccaga ttgcaactat tggccacaaa attcgaaaat ttgaagatgg aggaggaaga 180  
 gtgtattcat gacttcacaa tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240  
 agaaagaatg acagatgaaa agctgggtgag aaagatcctc agatccttgc ctaagagatt 300  
 tgacatgaaa gtcaactgaa tagaggaggc ccaagacatt tgcaacatga gagtagatga 360  
 actcattggt tcccttcaaa cctttgagct angactctcg gataggactg aaaggaagag 420  
 caagaatctg gcggttcgtg tccatgatga aggagaagaa gatgagtatg acctggatac 480  
 agatg 485

<210> 8332  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8332

agcttttagt ttgaatataa gttttaacac atcgggtttt tttattttaa aaaaccgatg 60

ttaacataga atcgtaaca tcggttgta aaaaaaccga tgtaacata gaatcgtaa 120  
 catcgatddd aacaaaaccg atgtaacat agaatcgta acatcaattd taacaaaacc 180  
 gatgttacat acgtcatgtt aacatcggtt ttcacaaaac caatgttaac gattctatgt 240  
 taacatcagt tttttaaaaa accaatgtta ataaactggt tttatttaca agtatgccac 300  
 tgtgtttgtg ttaacatcgg tttttagaa aactgatgtt aacctagtga tgtaaagt 360  
 atattnttta gtagtctata tttgaaaaca aaaacacaaa aatggttaat taaattaaaa 420  
 tttttt 426

<210> 8333  
 <211> 581  
 <212> DNA  
 <213> Glycine max

<400> 8333  
 acctgccga tgcaagcttc atcctcctct ttgtgacaat cacttgcttd tctcatcat 60  
 tgttttcagc atcatttccc aaagggact ctcatgagt gacacgactt gtagtactag 120  
 actttgttgt ttgtttttcg aataaattct cggattgagg cacaatattg atattgttct 180  
 ttggtgcaac acttgttgtg ccaatggact tgtttctcac acttgtcatg cttctcaacc 240  
 ttcctttccc taagtgatgc tcgcaaagag agtaaccac caaggtttgt tggcaacacc 300  
 tccatcctct cccatttaca cgactgcacc ttgaaccttc cattagtga ccaccttta 360  
 cctcttctt accaacgttd tcttgttcgg gttttgttgc tcttgttgcc acctcttct 420  
 cgatctctct tacctcttct tctcttctt tttctttgct gtcgtcttgc ctgaacatt 480  
 tctgcgttat ctttgcccttc attctcttcc gctttgttcc aaatctttgt tgcgctgtca 540  
 tcattgtcat aataattgta tcatcttccg gtgcattctc g 581

<210> 8334  
 <211> 561  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8334

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 cttttcttgc tcgtctctt tttgctcctt tttttccatg agatattttg ctacctaaac 120

atacgtatat ttttgtgagg tattttgcta tatacatgcg tgtccaaggt atcttgctac 180  
 ctaaacatac atatatatgt tttgtgagat atttttgcta tatacatgca tatccaaggt 240  
 atcttgctac ctaaacatac atatatatat tttgtgaagt atttttccta catacatgca 300  
 tatccaaggt atctttctac ctaaacatac atatatatatt tgtgaggtat gactaccttc 360  
 cgagcttggtg cttgttttat ttaaattcct aggatcatga gcaactaggt gtgtcctgct 420  
 atgacttgag aaacaaaggt gatcaaataa caagcagaga tttaaaaggt actagggtgc 480  
 ctccctagtag cgcttcttta acgtcttgag ctggacgctt gatggcttgt cggtcacgaa 540  
 cctagcactt tgcatacttt t 561

<210> 8335  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 8335  
 tagagcttag ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct 60  
 agagcttagc tacacacccc ctataatagc taagctcacc cccatgacaa aaaacatgaa 120  
 aataataaaa aaaaagtcct tattacaaag acaactcaaa atgccccgaa atacaaggct 180  
 aaaaccctat actactagaa tggccaaaat acaaggccta gacgaaggaa aaacctattc 240  
 taatatttac aaagataagc gggctcatac ttagcccatg ggctcgaaat ctaccctaag 300  
 gctcatgaga accctagggc ctttccttgg atctctagcc caatctactt ggagtcttct 360  
 a 361

<210> 8336  
 <211> 519  
 <212> DNA  
 <213> Glycine max

<400> 8336  
 agcttcaca catcattttt ctggttttgc ttctgaatag ccatttagca cctactgctt 60  
 tctttccttg aggttctaga gttgtaaact ctataggcct tagatatattt aaagtatcca 120  
 agtattattc cattatcaca cttagagtca aactttccca agttgtcttt aatatttaga 180  
 atgaaacatt gacatctgaa aggatggaaa tatgaaatgt tgggctttca tcctttccac 240



agttgatgtg gagtccttct caaaataggc cttatataaa ttatgttttg taaataacat 300  
ggagtattca cggcttttagc ttgtaagtgt aaggtcatta agcatgggtc tggccatttc 360  
ttgcaatgat atattcttct tctcaatcac accattttgt tgagggtgtc tatgattaga 420  
gacaatatga agaattccat tttctttaca gaatagatga aagtattcat tctcaaactc 480  
tcgatcatga tcacttctag gtgaagtaat gcatactat 519

<210> 8337  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8337

agcttcaatg gatcttacct catgtggtat cagagcttct attaaataaa attaaattga 60  
atttctagaa gcccaatcca attaaatttt agagggggag gtgagcattt ggttactaca 120  
cctcattgcc acatttatatg gtcacacgtt gtgcatgtcc ttcattgttt acatgcctca 180  
tgccacctaa gcacacttag tggagaatct tggaattgat cttggattag tgggctgaac 240  
cataactaaa attcactaat cataattagt gaaattttgt ctccaaagt tgggtccaca 300  
aattcaattt caaattcaag tgaaatttga attgaaattc aaatttcctt ccaattttgt 360  
gtgacactta ggctataaat agaggtcatt tgtgtgcatt ttttcaactt tgatcatttg 420  
aaaaataaac tntagaattc aaagctctct tagagcaca aatttcgggc tcttctctcc 480  
ctctcccttc attcata 497

<210> 8338  
<211> 489  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8338

agcttagtgc tcttcataaa aatcaaaant agntatttga aattacttct attttaataa 60  
caatattggt aaatatatag ggtaatatgt gatcaaatat ttggcgagac atgaaattta 120  
taatacatca ataattttga aataaaaaag gattaaaaca ttaataattt cgaagaggaa 180  
tgagtactta gattagaaaa agggacatta tttaagttaa aaaataattc ttatatattg 240

tcaaaaataa agttctatta cgtatacatg aatggagaca ttttaatttg taaatgacta 300  
attattgccc cgattctttc gcttggattt catcatcctt tgggtctaatt aacttataaa 360  
actaagcagt tgcaatcata tcctataatt acgccagcct gatgatcata ccattattgt 420  
ttcttaggta ctaggtacca aaaaaaatat attgacagtt ttgagttcta ctcaaata 480  
attctacta 489

<210> 8339  
<211> 507  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8339

cccatgttga atttgcttac aatagagctg ttcatagcac ttcttattgn tctccttttg 60  
aagttgttta tggttttaac ccactaactc ctcttgatct tttgcctatg cctaattgtt 120  
ctgtttttta gcataaagaa ggtcaagcaa aggccgacta tgtgaagaag cttcatgaga 180  
gagtcaaaga tcaaattgag aggaaaaata aaagctatgc taaacaagcc aacaaaagga 240  
gaaagaaggt tgtcttcgaa cccggagatt gggtttgggt gcacatgaga aaagaaaggt 300  
ttccgaaaca aaggaaatca aagcttcaac caaggggaga tggaccattt caagtgttg 360  
aaagaatcaa tgacaatgct tacaaagttg agctgcccaa tgagtataat gttagttcca 420  
ccttcaatgt ctctaattta tctctttttg atgcaaattg agaaatcgat ttgaggacaa 480  
atccttctca agaaggagag aatgatg 507

<210> 8340  
<211> 491  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8340

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gtctccagag agacttgagt tattcaattc ctctagataa aaataatcag tttaatagtt 120  
atgtacaaat ttaatgaaat atcatggatt tgtctaacta acgaaagaaa actaaagcaa 180  
cggaataaca aaaatgacga aatttagtgt gtcagaaata cgtaaaatta agaaaacaat 240

aataacaaat ttaattaatt caagaaaaaa ttaggattgg atttcatcgt tcataccctc 300  
aatatcctaa taatattaac atatatgaat catttttctaa cattattgat gcacacatta 360  
aattaccctg aatcgacccc tcgcactcga gaatoctaag aatatntacc gaatatcgat 420  
ccctcatata tgaaataaat atctcaacat tacaatcata atctcgtgct acttgcaatc 480  
aaaatgttat g 491

<210> 8341  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 8341

agcttgtcaa ggattaataa acaaccttta ttattcatat ctatgtaaat gaaagactag 60  
aaagtcattt ggttgtcaat gccattatta tattatcttt aaaatgagaa taacaaattg 120  
caaaagaaaa cattatcaaa agaataaaat aaatgatatt atgatatttt atttaaaacg 180  
aggaaaaata taattatctt ctcagtagct atgaaaaagg aaataaaata tttcatcaga 240  
attaagaaaa atataaatag cactgaaata ttatttatta tctctaaaaa tcaaacctta 300  
tcaataaaat aaaagcaatt actatagtat tataaaatat aattttatac taaaaaaata 360  
tttgaaaaaa ccaggggtaa cct 383

<210> 8342  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8342

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ttcacccgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120  
gctgggggca agtaaatattt cttcccatca gaccttggat gcaactgtga tcttataccc 180  
atatcagcta gatcttgacg ggtattcaag ccatacctcg tcttgccttg aatgttaagg 240  
agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
ctaacgtcaa gatcactcta ttacggaaga tcaaagaana gtggacctct tcttccatat 360

gcaactctga ctattatcct tcttttgggt cttccaaata cagtgttcag gtgttgaacc 420  
 tgctgatata cctgctcacc agagaatggg atccgcacaa tatcatgctc ttgacttcat 480  
 taaaagcttt c 491

<210> 8343  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <400> 8343

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 cggttgaatt ggctgagatc ttcaacaatt aatttccagc gtctcgatat gttacgggtac 120  
 tcaatcagac atccgagtaa aaagttattg tcgtttgaat taactcaaag cttcaacatt 180  
 caatttcgag cgtctcgata tattacgagc ctcaatcaga catccgagta aaaagttatt 240  
 gtcgtttgaa ctagctcaga gattcaacat tgaatttcga gcctctcgat atattacgag 300  
 actcaatcag acatcccagt aaaaagttat tggcgtttga ttggctgaga tcctcaacaa 360  
 taaatttcca gcgtctcgat atgttacggg actcaatcag acatccgagt aaaaaagt 418

<210> 8344  
 <211> 557  
 <212> DNA  
 <213> Glycine max  
 <400> 8344

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 tgaaataaaa caataaattt tgatgatgaa gatatgagga ttttgtaaag aaggttgatg 120  
 gttatttatg taaaatcttg aaaattagag ttggtttggg agtgaatata aaattattgt 180  
 agatttaatt ataatccttt aagcaaagt ataaacaaag taacaactct ttaaagaata 240  
 cacatatatc acagataatt acaaattatt aatgctaagt aaatagggtt aaattaaatc 300  
 ttgaatttat ttgtttcatt aagcacataa actcatgtgt taaattaaaa taatttatga 360  
 atagctgac tctttttatc tgctacgtac tactcataac aaaaaatact gctacgtact 420  
 acagccattc atattttacac tttatattct ttactttttt ttagcttgaa ttaatttatt 480  
 atgaataaat atactggtaa gttaatatgt gtgagaatat tctgtgtaaa aaaaatatcg 540

aaaagtaagt tttgatt

557

<210> 8345

<211> 489

<212> DNA

<213> Glycine max

<400> 8345

gctcgcccggttccttgcatgtgctgagtg ggtaacatcc ctatgtgctt tccctttgaa 60  
aacctgtcga cgacgacgaa gatacacgtg ttgcctttgt aagaaagtaa tcccacgata 120  
aagtcacatgg ataaatcttt ccatggctgt accggtatcg gtagaggact caacaaccca 180  
actggttttc tggtatcgta ttggtacac tggcacgtta agcatcctgc tatgaaggca 240  
cgagtatcat ctctaagga atcccatgta aagttttctt gtaagcgatg aagtgttttt 300  
tgaatcccca tgtgaccacc tgcggagat tgggtggaatt cttctagtaa caacttagtg 360  
aaggagggaat tcgagggaat ccaaattcga cctctgtgta agatgaaatc attagttaac 420  
gtgtactctg ggtgtgcttc ggggtcatct ttaatcttac gatataactc catgaaagct 480  
gggtgagat 489

<210> 8346

<211> 507

<212> DNA

<213> Glycine max

<400> 8346

ccgccctcaa aagaaaacaa agcaaaagga gaaaattccc gatctattta taggaagaaa 60  
gaaaaaggag aaaattccca attaaagagt gggagaaagc aaaaaagaaa gaaaattccc 120  
gatcaaggat cggaagaaaa caaaagaaat atgcagaaaa ttctctggac cagacaatat 180  
ctgaacaata cagaattgtc accaagtaaa caagaaaaga aaggaaacca cgaactaaag 240  
tggtcctctc cctttgattg ccaacaaaaa tcctgtgcgt cagtgacttg ttcgcctcac 300  
actaaacaaa aacagaaaag gaaaaggcca aaaacactca aagccaaatt tcccaacaaa 360  
aaaaacccat tccgaagaag aagtcctatt gatccatgat cacgcatgta atctttgatt 420  
tgataggaga tgatttgcaa aatcaagtca tgacatatct atggttcgga attaggacga 480  
aacactactt cgagtgattt atttcta 507

<210> 8347  
 <211> 536  
 <212> DNA  
 <213> Glycine max

<400> 8347

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gcgccagatt gattggaaaa gtatattgaa aagtaaacca aagccttgct tttatagact 120
cttcatgtct ggccaagagg accatttaga agagttataa cttttagaaa aacttaaaac 180
caatttgaaa aagtcaaaaa accatttgaa gagttacatc ttttgtgtga ttcagaaaca 240
ataactaata atcgattacc aaatcagtgt aatcgattac acaaagcttt tatgtgaaag 300
gatgtgactc ttcacatttg aatttgaatt tcaacgttca aaggcactgg taatcgagta 360
ccaaaacatt gtaatcgatt acagctgttt gaaatcaatt gaaacgttgt caattcattt 420
gaaaactttg tcaaatccat tttgctattg gtaatcgatt acaacaatct ggtaatcgat 480
taccagagag taataactct ttggtaaaca tgttttgaga aaaatccatg tgctac 536
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<210> 8348  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8348

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ntagctgtga cccaaggct tcatgtagac tgggccattt tctctaagtg aacctcggat 60
ccctgtcaga tacaatacta gaaggaattc catgcaacct tattacttcc ttgatgtaca 120
actccactag cttctccatt ctatacttca tattcactgg gataaaatga gcagatttgg 180
tgagtcgata tactataacc cacacagcat catgtccaag actagtcttg ggtaaactag 240
atacaaaatc catagatatg ctctcccatt tccattctgg aatttccaat ggcttcaatt 300
ctcttgatgg tcgctgggtgc tcaaccttag ctttttgaca tgtcaaacat cttgctacat 360
attcagctac atctttcttc atgccatgcc acccaaaaac tttcttcaaa ttggtacat 420
cttaatcatt cctggatgga aactaagacg aactttatgc gcatcagata 470
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<210> 8349  
 <211> 467

<212> DNA  
 <213> Glycine max  
 <400> 8349

gactctatatt aatactcaag ccttgatgca acatttggag aggttaatga aacaacgata 60  
 ttatatttctc catgagaggt tggatcaaat ggagaataga gatacataatg aagaacaaag 120  
 gaggagaaga gggaatgatg gtgttcctag acaaaaccga attgatggta ttaaactcaa 180  
 cattcctcca tttaaaggaa agaatgatcc ggaggcctac ttggagtggg agatgaaaat 240  
 agagcatggt ttctcatgca acaactatga ggaggaccag aaggtgaagc ttgccgccac 300  
 ggagttttcc gactatgctc ttgtgtggtg gaacaagcta caaaaggaga gagcaagaaa 360  
 tgaagagcca atggttgata catggacgga gatgaaaaag atcatgagga agcggtatgt 420  
 gccggctagt tactcaaggg acttgaaatt caagcttcca aaactaa 467

<210> 8350  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8350

tctttgagaa aacttccttg agaagctaga gcatattttc tctcacctct ctcataacta 60  
 agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120  
 acatacctct ctaatagcta agctcacctc cttgagatga gaaggtagaa cttagctaca 180  
 caccctctat aattgctaag ctacccccca tgacaaaaaa catgaaaata caaaaaaaag 240  
 ttcttactac aaagactact caaaatgcc caaaatacaa ggcgaaaacc ctatactact 300  
 agaatggcca aaatacaagg cgaaaacgaa ggaaaaacct attctaatat ttacaaagat 360  
 aagcgggctt atacttagcc catgggctcg aaatctaccc taaggctcat gagaacccta 420  
 nggccttccc ttgatctct agcccaatct acttgagctc ttctacccaa tgcccttgcg 480  
 ggataggatt gcatcanact ttacatgact ggatcatgta gcagtcaggg caatccatac 540  
 aaatattaaa taatcaaatt ttatga 566

<210> 8351  
 <211> 505  
 <212> DNA

<213> Glycine max

<400> 8351

gcttcgcctt ctaattcaca aaaacatggg ttcattgcatt gtaccaatat ttctgagatt 60  
aatcacaaaa ttttaagaatt atcatatctg taaaacacaa ttctggcaaaa ttcattcattg 120  
gtgaaaaggg gaaattgtta cgaacatcat aacaaaaaat ttgtcccttc aaaataaaat 180  
taaacttatt tggaattttt caaccctgtc aaatcaagga aaaattatac aatagaagga 240  
agagagagag ctactcccc ttactcga aatatgattc ccaaaggcaa gacctgttg 300  
aagttgctac aaatttctag aatattctta aatataatat gtatgaatat ggtagaacia 360  
tctacaacta tagtgtatat gaatatggta gaacaatcta gaactataat gtgtatgaat 420  
atggtagaac aatctagaat cataagtgt tgtataagat agaagagtct agaattatca 480  
tgataactat ctatcatgaa aactc 505

<210> 8352

<211> 515

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8352

agcttcttag tttcagatga tgcagatggg tttgtttcna cctcatgcac tcctctaattg 60  
actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
tttctggctt cagcaggggt catgtctcca agggctcaac cactggcagc atctatcata 180  
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240  
tgatgggtgg ggcaactggc acatagtttc ttaaactctt cccagtactc atacaggctc 300  
tctccactga gttgtcta atctgagata tccttcctaa tggctgtggg cctggaagca 360  
gggaaaaatt tttctaagaa tactctctta aggtcatccc agtcatgat ggaccttgga 420  
gcanggtaat acagccagtc ctttgccact cctctaatg aatgaggaaa agccttcaga 480  
aatatgtgat cctcttgga atctgggggt ttcatt 515

<210> 8353

<211> 500

<212> DNA

<213> Glycine max



<400> 8353

tccaagttca ttaatcatac ctttaagcca gattgtttct ttcactcctt cagctagggc 60  
catgtactct gcttcagttg ttgaaagagc aacaactgat tgttgatttg ctttccaact 120  
gattgttgta ccaaacaaag taaacacata tcctgttaaa gatttccttg tgtctacatt 180  
tcctgcaaaa tctgcatcta cataacctgt gattgctgcc tcatatgctg tcttcttgta 240  
ccttaatcca actttcgaag atccatttag ataccttagt gtccacttca caacttccca 300  
atgtgcactg ccaggatctc ccatgaatct gcttataata cttacagcat gagctaagtc 360  
aggctctgcta caaaccattc catacattat gcttccaaca ccactggcat aggggtgttg 420  
atccatttta gacctttctt cagttatttc cagtgtttga ataacagata actttgtatg 480  
atggccaagt ggtgtgtaac 500

<210> 8354

<211> 542

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8354

agctntgatg gtgtcgagaa gaaatcacat gtttgttatt ttatttaagg ggtagaatgt 60  
gaatgtatgt atacatgatt ttgttagtgc ttagctttac tgagctttaa aagattggct 120  
aaaattttgt taaaacataa gcacttagac aatgaaggaa agctggagtt gctgcacatg 180  
atgtccaacg ttatgtcaag gaatcagatc gggctgcaca atgcacaaag caagatataa 240  
tgtcaaatga agaattgaag ctgcacgatc cacgatgtcg gatacaatgt ccaggacatc 300  
ctgcccgaag atactggaca cataaatctg ttatatcttt aacagattaa tgtgcactta 360  
gcaacagatt taagcgatct atctttatga acgaattaaa agataattaa agttcgaatt 420  
acaaacttga atagttcggt cagggattag agattaaaga taaaaactga aagatcaaac 480  
ttgatctttt atatctttta gtgcagatgt tcaggagaat gatagatctc atccagcgca 540  
ag 542

<210> 8355

<211> 498

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8355

attttggcga tatcagggta catatgcttg atgacttttag tgagaacacc aaccttccac 60  
gccttcttta agtcatgtgg tttcttgtaa ggtggagggc cttgatcttt aggtagacca 120  
at ttgaggcc accattcttc attcccagtt ggccaccatg gtggaggaac acccttctct 180  
agtgggaacc tcctctgagg aggatcacag tgctgcataa gtgctgacaa gagagaaccc 240  
aaggttgtgt cctgtaactc ttgcaaggtg tgtggtgtag gaccaatgga attgcatcca 300  
tcattctttc caggaattgc attatcggct tgatacttgg ctatggcagc aggaccattt 360  
cgatcaaacc tgaccttata cttccaccat tcgcgaagat tatctgatgc tccggtcact 420  
ggctttccct tcttaagatt tatcctatan acaaaccctt gtgccttgca nacctncatt 480  
atcttcagca tgtacttc 498

<210> 8356

<211> 413

<212> DNA

<213> Glycine max

<400> 8356

agaagaaatc aaaaagcaac aagtcaaaac ttcatatatg atatttattt aaagattttt 60  
tcaaaaacca aatagcacca ttttgtttta caaaagaatt ttctcaaatt ttctaaagtt 120  
accagagtga ttactctttg gtaatcgatt accagttggc agtaatcgat taccagtgc 180  
cagattgggt tttaaaatgt tttcaaatga tttgtaacgt tccaaaatta ttttcaaata 240  
gtataatcga ttacactata ttagtaatcg attacaagtg aatctaaatg ttggaattca 300  
aatccaattg tgaagtcaca acttgtcata aaatacatta tgtaatcgat tacaccattg 360  
gggtaatcga ttaccagtga atagttttga agaaaagtta agagttataa ctc 413

<210> 8357

<211> 500

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8357

agcttgcttc aaccctgaat aggccttccc agttgttttc tttctttctc gctcagggat 60  
 ttttccttgc ttcacctcgg actcgccata ctaagttgcc aggttgaaaag gctcgagggt 120  
 gaacctttgt attatatctc cttgatgctc ggagcttggt ggcttcttcc ttgattttgg 180  
 acatcttttg gacttcgtct tttgtctcta gttccaccag catgttttct tcgttttggt 240  
 gttcctagaa caacgggtctc cttgtcgacg gttccctaata ttaaatgggg atcatggcgc 300  
 ttgtgtctta tgtgagttgg aaaggatttt tgntgggtatt tatttggggg tgaatagtga 360  
 taagcccaca gtataacttg gagttcctcc ttccatagac ctttggactt gttgtgcgct 420  
 tatcaatttt ttgacattta ttgtttaatc gattacccca tgatatagtc tagtaacatt 480  
 tattgcgtct atgggttttat 500

<210> 8358  
 <211> 579  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8358

tgagtaattt gttcttattt cttaccacat agatattggt atgggtggag tatggaatag 60  
 gagtgtcaaa ctaatgaatt ggataatttt tttgaattga aatggatagc caatccattt 120  
 atgatccatt aataatgtat tgcaaaaatc taatttatcc ataacttatt tcatagaaaa 180  
 aggtccatcc atttatattt atttttttca aaacaatatt tttctaaaac aaagtttaat 240  
 atttgtacac attcttacac tgaaatacca tagaatccaa tatttgtctc ataaagacct 300  
 atgtccaagt aatgaacttg gaactacttg attcactgga ttgcaaaata tgttggatgg 360  
 ttcattatct atccaatacc aaatggtaat ccaattcaaa taatgtatta agttttattt 420  
 ttataattga atagattgat tggttgattt atacttgatg gattggactg ttagtggata 480  
 aaaagattga attgccacat atngtaatga atactaattt gccatagggt atggaaaaca 540  
 tanactgtaa ttgtttttgt acttttaggta aaactatat 579

<210> 8359  
 <211> 631  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 8359

tcctcggggc cattcctgcg aaggcaaaca ttgggtaag ttatttcaca agaaatataa 60  
caatcattac aaacaagggc caaacaacac ttctcatggc acgagtgtca acatgcactt 120  
tataaaataa tcatattggg gtcattgctat ttatgacac atacgtattt gcacacataa 180  
aaattttgta tgaagcattt tacgacacct atccatgtac atattttttt tgacaaacct 240  
tttcatgcta catcctatat atatacacac attttttggg aggccttctt tgttacctac 300  
tcacaaatac acctattttg aaaaacactt ttacgctacc catccaacac ttgtgaaggc 360  
acttcatgct atatatattc atattatgca aggcatcttc atgctatata tatccatatt 420  
atgcaaggca ttttatgtaa ctctcttgca cgcattttat tcaacatttt gcaaggcatt 480  
tccatgctat atatatattc atatacat accgttgaaa gtatttttca tgctacctan 540  
gtgcaaggta ttctcatgg ggcagccaaa tttaaattct aataacacct ctcaacatgt 600  
ncaatattca tgcctttttt cattcaaacc a 631

<210> 8360

<211> 587

<212> DNA

<213> Glycine max

<400> 8360

agcttttagat gccttttaaag tttttaatgc tgaagtttag aaacaatgcg gaaaacaaat 60  
taagatcgtg agatcagata gaggtgggga gtactatggt agatacacag aggatggacc 120  
agcaccaagt tcatttgtga aatttcttca agaacatgag attggtgccc aatacactat 180  
gcctggttct tcggatcaga atggtgtggc agaacgaaga aatcgaacct tattagacat 240  
ggtgagaagc ataaagagta atgtaaagct tcctcaattt ttgtggattg atgctcttaa 300  
gacggctgcg tatatattaa actgagttcc aaccaaggct gtctcaaaga caccttttga 360  
gttattcaag ggttggaac caagtttgcg acatatacgc gtttggggat gcccgctga 420  
agtaagaatt tataatccac aagagaagac actagacct aagactatta ttgggtattt 480  
cattggatat gctcgaaggc ctaaagggta taagttctat tgtccatccc accacactat 540  
gattgtggaa tcaacgaatg caatatttct tgaaaatgac ttgatca 587

<210> 8361

<211> 391  
 <212> DNA  
 <213> Glycine max

<400> 8361

gcttgagcca acaacctctc taactactgag agactttttca atatttttctc acaaggagag 60  
 ggatgcagcc ggctttacca accattttct tcatgtctgt ggaactgcaa gcgcagcata 120  
 tcgcagccgc aactgcttgc tgagcaccta atgatccgga ctataacaca tgagtcagac 180  
 tggggatcaa accgagggaa accaaggatt cctaaggagac taatacaacc agttttctcaa 240  
 tgctccaacc acagattcct gaggaagtgg accatcaaga taagccagaa gactcctaac 300  
 accaccttgt gatatgacac atattcttac atactcattg cttgcagcga ggttctgcaa 360  
 gcactctgca gcatgctctt tggaacctaa c 391

<210> 8362  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 8362

tggactagcc agtgatggaa tgaatccaaa ggcgttttaa tttctctaca cagttcatgg 60  
 ccaggtctag aaatttatag tttgcttcct tggctgaaaa tacatgatgt tgtctatgat 120  
 gatataaggc ccaagacagc caggaaatga cattgatgtt tatctaagtc cgctgattga 180  
 agaccctaac aaagttgtgg gacaaggggg ttttagtggt tgatggggtt tgaaataaga 240  
 cttttcaaat gcgtgcaatg cttttttgta ccattaatga ctttccagca tatgggaatt 300  
 tgagcggtta ccgt 314

<210> 8363  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8363

tatgctgcat gaattaggcc aaataaatct tcataaatga tagatagtgt gatcattcta 60  
 ccagtgcatt aaaggcccat cccaatttat cactctgcac tacttggttac atgtgttaag 120  
 ttttcgttta atgagcgtac tataggcaaa ggtgctgaaa ggcgtgccta agccactgag 180

gcatggtgca tgaagctttt tttttctttt ttttaatcat tttatgcctg ctatcttttc 240  
aatgagttgt gtctatcaag ttaatagtgt gttgaactta tttatttatg cttggtattg 300  
tcgngcatta cagccttcgg acattatttt cttactttca ggttttgtct gtgacattgg 360  
atgaatggtc aagtgatgga atagatgcaa tgatttgaaa tggacgaaat tcttctgcta 420  
attcaatata tgacgcttat ttt 443

<210> 8364  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 8364

gcatgcaagc ttcaacatca gaccacttcc tgtgtgctgg aactttttca catggacttg 60  
atggggccta tgcaagccga aagccttgga ggaaagaggt atgcctatgt tgctgtggat 120  
gatttctcca gattcacctg ggtcaacttt atcagagaaa aatcagacgc ctttgaagta 180  
ttcaaggagt tgagtctaact acttcaaaga gaaaaagact gtgtgatcaa gagaatcagg 240  
agtgaccatg gcagagagtt tgaaaacagc aagcttactg aatactgcac atctgagggc 300  
atcactcatg agttctctgc agccattaca ccacagcgaa atggcatatt tgaaaggaaa 360  
aa 362

<210> 8365  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8365

tcaacatcag accacttcag ggggctttta ctactttctca tggacttgat ggggcctatg 60  
caagtagaaa gccttggnng aaagaggtat gcctatgttg ttgtggatga tttctccaga 120  
tttacctggg tcaacttttt cagagagaaa tcagacacct ttgaagtatt caaagagttg 180  
agtctaagac ttcaaagaga aaaaaactgt gtcatcaaga gaattaggag tgaccatggc 240  
agagagtttg aaaacggcaa gtttactgaa ttctgcccac ctgaa 285

<210> 8366

<211> 353  
<212> DNA  
<213> Glycine max

<400> 8366

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agctttgaat gctctattca atgtgttttg acaagaatat cttcagactg atcaacactt 60
gcacagtggc caaggatgcg tgggagatcc tgaaaaccac tcatgaagga acctccaagg 120
taaagatgtc cagactgcaa ctattggcta caaaattcga aaatctgaag atgaaggagg 180
aagaatgtat tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcaactgcct 240
tgggagagaa gatgacagat gaaaagctgg tgagaaagat cctcagatcc ttgcctaaga 300
gatttgacat gaaagtcact gcaatagagg aggcccaaga catttgcaac atg 353
```

<210> 8367  
<211> 233  
<212> DNA  
<213> Glycine max

<400> 8367

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atcccctact tttgatgatt gtcaagaatt actaatcgtg ctttgaatag atctacactt 60
ccatcaattt tatgctttat tttgtacacc cacttgaagc caagtgcttt ctttcttaga 120
ggcaattgtg tgactgttca agttccattg gtttcagggg catgtatcta actttacact 180
gtatctctcc atcggctatc tttcacccgc tcagtataag tgacaaactt ttt 233
```

<210> 8368  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 8368

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agcttgtgtt tcttcacgtc tagtttatga atgtagcata tagatccaaa gacccttagg 60
tgctttgctg atggcttctt cctgttccaa gcttcaattg gagtcttgct ttttacagac 120
ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccagaatgtg 180
ttaggtagtc ccttttctct gagcatcgat ctagccatct ccataactgt gtgattcttt 240
ctctcgggca ctccattttg ttgaggagaa tatgcaattg taagttgtct ctcaatgcct 300
tcatectcac aaaatctttc aaactcgcga gaggtgtact ctttg 345
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<210> 8369  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 8369

agctttacta ggcttgagct cggtttgagt tgaatatgca aggcttgagc ttgactcatt 60  
 acctatcata ggctttttta aaggctcgac ttggcttaca taaaagcctg gcttggccta 120  
 cgagcctatt taaaagcttg cttaaagatg tttttgatca attaattatt ttaaacctag 180  
 tgaaatacta actaaaaaaaa cttataaaat ttcatataag taatgtacaa atccaaaaat 240  
 aattgataaa taaaatcata ttgaattcaa gtcgttaaaa taaaagtat atcaaaaagaa 300  
 aatgaaaaaa cagagcataa tattaataaaa tgtatggatt ataga 345

<210> 8370  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 8370

tgtaccggtt gacaatggtt tcagagttag atggtgtggg attgaacaag caacaattca 60  
 ccacaagaat ccaatgtctt tggcttcaac accggttttc tccaagagct cgtcgacggc 120  
 cccgaagagc accgtgtccg tctccttctt tgctctctcc aacgttagtc tgggagggat 180  
 ctccaggaga ccttccggga catacgtcca cggtcccaac cgggaccggt caagaatctt 240  
 gttcacaagc ttgtagttct cgtcggagag gaaaccgacg cgtttcgccc ggtcgagcaa 300  
 catttccttg 310

<210> 8371  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 8371

agcttgcaaa cccatggaag ctcttaatat ctccacact ttttgggggtg ggccattctt 60  
 ggatggcctt gattttctca aggtccactt ggacccatt tctaccaact ataaacccta 120  
 acaaaactat attatctata caaaaggtag acttctctat atttgcatag aggggtgtttt 180



tcctaaggac tgaaagaact tgcctgagat gtcctaagtg atcatctacg ctcctactgt 240  
 aactataaat atcattaaaa taaacaacta caaatatacc tatgaaatcc cttaagacat 300  
 gatgcataag cctcataaag gtgtttggtg cattagttag cccaaa 346

<210> 8372  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 8372

agcttcgtgg aatgcttttt agataaaata actcgctcta aaataatcta ctattggtag 60  
 atttaatcta ttataagtac ataccctatt tttctctatt ctactgactt atttaatata 120  
 tattgcgata acatataaat gtataaaaaa atattcttgg atgccttaat tgctttaatt 180  
 tatgtcatat aaataaataa atttcttcaa ttactttaat ataattataa atttggtttt 240  
 tcgatgaaat gtgaatattc tcacaaacgt ttggcccata tcacttatcg ggtaattta 300  
 tgatctgtgt cataacttaa gttttttacc tctt 334

<210> 8373  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8373

ttgaaggttc tgaggattat gaatgctgtt aatacacttc caaggcatgc aacacctact 60  
 gtgagcnnat ggaataattc atgaggtaac gacaccttat acaacacaac ataatggctt 120  
 ggcagaacga agaaatagaa ctatccttgg catggcaatg agcatgttga agtagaagaa 180  
 gctacctcat tcattctggg gaaaagtgtg gagcacaaca acttatctgg tgaatagatg 240  
 tcctactaag agattgaaag agaaagtccc aaaaaagggtt tgggtctggaa gaaagccatt 300  
 ggtt 304

<210> 8374  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 8374

agcttatagc cccgagagca tttgtgttag ccaacaattt agccgcta at tgttcttgaa 60  
tccatatttc tttcatgcgg cctataaggt tatgcctcag tcggacaacc ccaa atatgc 120  
aagtgtttaa tgctgggctt tttgtcagtc caaagttcat aaggggtttt gttaactgct 180  
ttacttggca ccctattaag gatgtaagtt gtggtcttta aggctcctct ccaaagcgac 240  
tctggcaaag aagaatgact aaccatactt ctcaccatat ccttaagagt ttggtttcat 300  
cgttctgcta caccattcat gctaagtatt cctgacatac tgtattgtgg aacaa 355

<210> 8375

<211> 317

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8375

taagctcctt caactgcaca aagctcttta tgttttttaga gtatccttgt ggaaccttca 60  
cccgacgaag actctgncaa aacttatctt ctcttttttg gacaaggat ggcaagctag 120  
gggcaagtaa attttcttcc cattagacct tggatgcaac tgtgatcgta tgcccatatc 180  
agctagatct tgacaggat tgaagccatc cttcatcttg ccttgaatgt taaggagagt 240  
cccaatcaca ctatcacaaa catttttctc cacatgcata acatcaatac aatgtctaac 300  
atcaagatca gatcagt 317

<210> 8376

<211> 368

<212> DNA

<213> Glycine max

<400> 8376

agctttgagc aaattcaa ac gagattaaat tttgactcgg atgtccgatt gagccctgta 60  
atatatcgag acgctcgtaa ttgaaaactg aagctttgag caaattcaaa cgagaataaa 120  
ttttgactcg gatgtccgat tgagccgtaa tatatcgaaa cgctcgtaat agaaaacgaa 180  
agcacgtagc aaattcaa ac cacaataaat tttaactcgg atgttcgatt gagttctata 240  
atatatcgag acacttgaaa ttgaaaacag aagctctgag caaattcaaa cgacaataac 300  
tttttactcg gaggtccgaa tgaatccgt aatatatcta gaatctcgta attgaaaaag 360

gaagctct

368

<210> 8377  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 8377

agcttgatca aaacaattat ctattcattc caatccactc aaatcatata attgcttatt 60  
caaatcattc tcaaacattc atttcatgca aaacaatcca ctgcatatca ttttcaatca 120  
attcactatt caaacacgct ttaggtacaa gcaaacaact caaagtgctg aaattttaa 180  
aactgaaatt aaaataactg aaatatgaca acgaaatcag ctggaaatat aaggtgttta 240  
accttcacca aaacatcttc aatgactcca tatggccttg tgatggagcg gtcaactaac 300  
tggaggggtca tgcgtgtggg cattatctct atctctccaa gtcgctggc 349

<210> 8378  
<211> 309  
<212> DNA  
<213> Glycine max

<400> 8378

tcaatggctc aatgagcatt gggaaatatt tgtcaatcaa caagtaaaga tacccttttc 60  
tataagagac tctgtgatga agttttatgt gatataatcc ctatggaagt agagcacatt 120  
ttgttgggta gaccgtggca atttgacaag aaagcaatcc acaatggctc caccaatgaa 180  
ataaccctca cccatggaag caaaaagttt aaacttgttt ccttgacacc ttcacaagt 240  
gttgtggatc aagtacgaat aaaaatcaaa tgggatgagg aaaagaatag aaaaataaaa 300  
gaagaacat 309

<210> 8379  
<211> 312  
<212> DNA  
<213> Glycine max

<400> 8379

ttcgagtaat acaaatgggt ataacttttc aactgagct ccgattcagg cttacaatat 60  
attgagacgc tcaaattaaa catcggaagc tctcgagaaa ttcaaattgt cataacattt 120

cacccggatg tcctatccag ggcgatcaca tatagagacg tacaaaatta tacaacggaa 180  
gctttcaaga aattcaattg gtcataactt ttcaaactga ggtccgattc aggcttataa 240  
tatatctggg cgctcgaaat tcaacagcga aagctcttga gaaattcaaa tggtcataac 300  
ttttaactca ga 312

<210> 8380  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8380

agctttttcac cagcagtggc agatccttca agatcctcag aggagagggg atatgaggtg 60  
gtgttgaaac aagccgcact ggtcaaggag aagaataagg gcaccaagaa agcactgaat 120  
ttacacaaac caacaggtga aggtgattta acccatgggg atctgttgag tgctgcttat 180  
gatangtgtg gtgaagtctg tgctgaatat gccaaagacat tntatcttgg tactctctct 240  
ctgtcctggt ttaggcctta ttgtttttct taatcatttt cccttgatcc aatgagtttt 300  
tgcgcattct tttaaagctc attataatat c 331

<210> 8381  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 8381

agctttatgc acctttgagc ggttttcctc tactcagttg tatccagtgt ttcttctaata 60  
gctcattaag aaacgaaatg caaaatgtct taatctcatt attgggtaag agaaattcta 120  
tctttgtgct ttcattcctc attcttccca ttattttttt ggaaaaaatg tgtgttggtc 180  
tgatcggttt ggggctttgt ttctttacca tgcgtgcttg catttttagtg aaagttttca 240  
gaaacttcaa ggtcttcagt cttttacatt cacaagaatt caatgtcttc tgccttttac 300  
atttcaaata cttaaatgtc ttttatctta tacatttaca agacttcaat gtcttt 356

<210> 8382  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 8382

agcttttggg gaggaattta gggtttcaaa tcctacatta gagactgaca cggttatgga 60  
agttatttgc tggttttgaa atgcttgata tctataatgg gtattttatg attaaatttg 120  
atatgtagga agacggaaca aaagtgatga aggagggcct ctggatggtc tttgatcact 180  
atctcacggg caaaacatgg aatccagact ttagctcccc ggcggaaaaa actaacaaaa 240  
ccctgggatg gatacgttat catgaacctt gtttattatg acgaaagtat tcttttggca 300  
ttggcatcag cagtaggaca ccctatcaaa gttgataaca atatgaaaga ttttcgga 358

<210> 8383

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8383

gtcagcttct agatatatta tgcgctttt cattcttccg tttcaaaagt tatggccata 60  
tgaatttctc gagagcntcg ttgctcaatt tcgagcgtct cgatatagtc tgcgcgtaa 120  
tcggacttcc gtgtgacaag ttatgaccat ttgaatttct cgagggcttc cgtttttcaa 180  
tttcaagctt ctgatatat tatgcgcctg aatcagactt tcggttacaa aagttttgac 240  
catatgaatt tctagagagc ctgccttggt caatttcaag cgtcctgata tatcatgcgc 300  
ctgaatcgga ct 312

<210> 8384

<211> 333

<212> DNA

<213> Glycine max

<400> 8384

agcttcttgt atatattatg cgctgaatc ggacttccgt gtgaaaagtt atgaccattg 60  
taatttctcg agagctgtcg atgtttagtt tcgagcatct ggatatatta tgtgcctgaa 120  
tcggacatcc gtttgacaag ttatgaccat ttgaatttat cgacaccata cgttgttcaa 180  
tttcgagcgt ctgatatat tatgcgcctg aatcggactt ccgtgtgaaa tgttatgacc 240  
attttagttt ctgcgcagct tccgttggtc aatttcaagc ttctcgatat attatgtggc 300

tgaatcggac ttccgtttga aatgttatga cca

333

<210> 8385

<211> 312

<212> DNA

<213> Glycine max

<400> 8385

tctggtggga catcttgact tgctttccta tctgacattc accacagatt ctgccttctt 60

ctattttcag atgggaatgc ctctaacagc acctttgtca atgattttct tcatgcctct 120

taagtgcaga tgtccaaatc tttgatgcca tattttgact tcatcttctt tggagaatag 180

acatgtggag gagtaactgg tttcttgagg tgtccatagg taacagatgt cctttgatct 240

gctgcccttc attaggactt cactcttctc atttgtcacc aagcattctg actttgtgaa 300

gtttacattg aa 312

<210> 8386

<211> 304

<212> DNA

<213> Glycine max

<400> 8386

ttgagcaaat tcgaactaca attactttta acttgatgt ctgattgagt cccgtaatat 60

atcgagactt cgaaattgaa tgttgatggt cgttgcaaat tgaaacgaca ataacttttt 120

actctgatgt ctgattgagt cccgtaatat atcgagacgc tcgaaattga atcttgatgc 180

tctgagcaaa ttcaaacgac aataactttt tactcggatg tctgattgag tcttgtaata 240

tatcgagacg ctcgaaattt aatacgaag ctatgagcaa attcaaacga caataatttt 300

ttac 304

<210> 8387

<211> 328

<212> DNA

<213> Glycine max

<400> 8387

agcttcataa ttcaatttcg cgcgtctcaa tagattacgg gactcaatca gacatccaag 60

caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatggtctcg 120

atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgct 180  
gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240  
gagtaaaaag ttatcgtcgt ttgaatttgg tcagagcttc aacattcagt ttagagcgtc 300  
tcgatatatt acgggactca atcagaca 328

<210> 8388  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 8388

tatgctgcaa acatttacat tagaccttct caacctcagc agcaaaatca accacaacag 60  
aacaattatg actctctagc aacagatata accctggatg gaggaatcac cctaattctca 120  
gatggtctag cccttagcaa caacaacagc agcctgctcc ttccttccaa aatgctgctg 180  
gcctaagcag accatacatt cctcctccaa tccaacaata gcaacagccc cagaaacgac 240  
caacagttga ggctcctccg caaccttccc tcgaagaact tgtgaggcaa atgaccatgc 300  
agaacatgca 310

<210> 8389  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 8389

agctttaggt tcaatggctc cgatcacatc tatgccctat atagaaaaca accaagggtgc 60  
taccaagacg ttcaaaggta tgggtggagc attaacatta ttagcgaagg cttggcactt 120  
atggcatttc ttcacatgga tgcaacaatc actctccata gtgagccagt aataccttgc 180  
tctcagaatt tttcggggcca tggcatgtac attatcatgc gttccaaagg atccctcatg 240  
tacctccacc agcatttgct cagcctctct ggcattccaca catcgaagca gtaccatgtc 300  
atggttcctc ttgtatagga tattcccact caagaagaaa cgggcgcgca actt 354

<210> 8390  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 8390

agcttgcttg cctctagttg acatttgtgc ggataactat taggtatctt cgcattgccac 60  
ctgactcacg ggttgggggtg acagaactgt ggggtggttg acaaaagcgg gacttttgct 120  
cctacatata ttcaattgcg agactacata gttcttcaat ttttgtgtga gactacaaat 180  
agtctcaatg ttattttact aaaatgcgaa catgctaaca tgcttttagca aagaaacaaa 240  
ccttcaactg atcaaggcaa catatatattt tttgaataaa aacaatgcgt ctattggaga 300  
aggaaagtat gctaataaaa ttttctcata accacaaatg agattttgga tgttagcatt 360

<210> 8391

<211> 309

<212> DNA

<213> Glycine max

<400> 8391

ttttagttta taaaaaaata tagaaaattt cttaaagtat atgctaaaca tagtcaatat 60  
ttaatgaaaa atatgaagta tatgatatat ttgaaggaaa gcaaagtgat aataaacaaa 120  
tgtttgaaca ttaaataatt attggaacaa ctcatttaat tttagggttat gtgaatgtac 180  
cgaataataa acatgaagat agaaattgtg acctcatata ttgggattga aactcatatt 240  
ttaagatgat atcatatctc atcctagtaa ttattggttag gtctattgtg ttgtctattg 300  
tcgggttat 309

<210> 8392

<211> 311

<212> DNA

<213> Glycine max

<400> 8392

tattgagagt gtaacaatct attctaatag catctgocca aagggtttt ttaggtttg 60  
tccattcac aaagttctag cgccttcttc aagagatcta tttttccttc ccacaacatc 120  
attttgttga ggtgttctcg gggcagaaaa attgtggtga attccatttt cttcacaaaa 180  
cttttcaaaa tactcatttt gaaattcacc tccatgatca cttctaattg aaataaatact 240  
aagaccttctc tcattttgaa taactttggc aagtttgtga aaagcatcaa aagcatcatt 300  
tttggttctc a 311



<210> 8393  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8393  
  
 agctttctgtt ctaaatttcg agctttctga tatactatgg gacacaatca gacatccgag 60  
 taaaaagtta ttgtcgtttg attttgctca gagcttttgt tctaaatttc gagcgcctcg 120  
 atatactgtg ggacacaatc ggacatccga gtaaaaagtt attgtcgttt gatttttgtc 180  
 agagctttctg ttctgaattt cgggcgtctc gatatactac gggacacaat cggacatcag 240  
 agtaaaaagn tattgttggtt tgattttgct cagagcttct gttctaaatt ttgagcgtct 300  
 cgacatacta cgggacacaa tcggacatcc gagtaaaaag 340

<210> 8394  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8394  
  
 tgcacagaga ggccacttaa tctccttcat agtccccaaa agaacactaa ccaaactaca 60  
 acacctnaac ttcacctca cctcatcacc tttgtcccca tcaactgttcc tcgagttgat 120  
 ggtcttcctc aagatgctga aaccacttca gacataccct tctctttgtt cccacttctc 180  
 gccacggctt tggaccgcac cgagaaagac atcgaacttc tcctaaggga actgaaacca 240  
 caatttgttt tcttcgattt ccaacattgg ctgcccaccc tgactcgaag cctagggcatc 300  
 aagagtgtc 309

<210> 8395  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8395  
  
 aacaaaactt acctttcncc cttttattga agatataaaa aacaccacct atatcccaaa 60  
 aaataatcat ctgaaaaata atgaagtttg aaataaatga aaaatcacta atttccttag 120

aaataaagaa caaattcata tcaagaaaac tggaaattgc aaccaacagt aacccaatg 180  
aacctaagaa gtagaaatgg cccaaaagat gtgcttgctc tttgaacctc catcatagag 240  
tatatgacta cattgtgtga g 261

<210> 8396  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 8396

agcttcttac aaagcatagc gctttctgga ttagatgat gatctcata cagatggatc 60  
ttatatatct atatatctat agatagatat atagatatag atatatagat atagatcata 120  
caatgaagta cgcacagagt gggatatatag gaatccaaat ctgccgaatc actcatgtta 180  
tgatcttcta catcctaggt cttcccgctc cttcatctgg cttatgttct tcatgtagca 240  
ttcagactga atgactctat gaaattacgt cgctacttcc acatggtagc ggtaacgtag 300  
gagacatctc tatttttccc ggggggaatc cttagaatta ccacagctta gctttcaatt 360  
cg 362

<210> 8397  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 8397

agcttaatat acatattaat atattaaaat atttcaattt taatatagaa agagtgatag 60  
taaaatacaa atatagacac aaagacacac aaacatgata gtacttgtat ttcccctagt 120  
taattaataa aagtaaaaga gaacaaatga attagttaca tgaacataat ttgagagtgg 180  
tttacacatg agcaattgag ggcaagaaga atagttggta ttttactaat tatttagggg 240  
caaaatcagt caaataaagc atacaccata tgagtaattt ccattattaa tagttataga 300  
taattgaatt taaaataatt ttgaaacact gatttcacga ttaatagtgt ggggtgttgtt 360  
acac 364

<210> 8398  
<211> 310

<212> DNA  
 <213> Glycine max  
 <400> 8398

ttatttggtt aacttgatct ttaactcctt gtttggccca atgccaacta gcttaacttc 60  
 tctcacctac tatctcttca acacaataac ctcttgggct ctattcctaa ctcatggggt 120  
 ggtagcttga aaaataactt ctttcgggtt tgaaaaatga tcatagatca taacttgctg 180  
 agtggagca ttcctgcttc tttgggtggc ttgagtgaac tcagagagat ttatcttagt 240  
 cataaccaat ttagaggagt tatcccaaat gaaataggaa acctttctag acttaaaaact 300  
 ctagattttt 310

<210> 8399  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <400> 8399

agcttccatc aagtgtgttt catatttcaa taacaattgt ggattatatg gcacaacaaa 60  
 tcgattatca agttcaatac catttttagc actgtacgcc catcatttct tctcctataa 120  
 attggaaatc catcttggtc aacaattgtt gatccatgga attttttaag gaaatatcta 180  
 atacacttcc cattgaccat acacagtgat cttttatttg caaaccacaca tgggccatga 240  
 atcatatggc tggagactat ttcaaataat tcgggatggc tgtgtttgtt tggatattct 300  
 gctaaaatga tgcgatcaat atcctctgga tttggatatt 340

<210> 8400  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8400

gcaagttatt agtttgagtt aaaaattaaa aggggtggaaa cttaccttnc atatcaatgt 60  
 catctttata taaagataga ggtagggaca aaatataaaa aatgggcaaa tataactagt 120  
 aactaggata agataagaan ntaaataagt atttattcct ttaanttatt ttntagaatt 180  
 aattttgact tttaaaatta aattataaga acatcatatt tatcacaatt taaaattggg 240

acttaaaatg atttanatta tcataaaaata tatattnttt taaaataatt aatattaaaa 300  
 attagatgac 310

<210> 8401  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8401

agtgaatta ttttcttagt ggtatatgta gatgacatat ttactaattg gaaatgacat 60  
 accaacattg caaggcacia agaatgggct atcataacia ttcttcatga aggatntgng 120  
 agaagcagtc tatattctat gtataaagaa ttatagagat agatataaaa nggtgctttg 180  
 gactctccaa tctatgtaca ttgatactat cttaaagaga tataacatgg ataatccaat 240  
 gagctatttc tgtngtgtgg aatactct 268

<210> 8402  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8402

tcttagcacc tgcggctgca gcttggctct gtgaactgca tgtctgcttg ncatttgcta 60  
 caagtcttca gggaagggtg ggagngccta actgtggctg ttctgggcta tgctgttggt 120  
 gattggggag gaatgcatgg tctgcttggc catcaacatt ttggaaggaa tgagcatgct 180  
 gctgttggtg ctgctgaggg ctgcaccatc tgagattagg gtgattcctc catccagggt 240  
 tgtatctgtt gctggagagg tcataattgt tctgctgtag gtgat 285

<210> 8403  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8403

atagaagact ccaagaagat tgngccagag aagcaagaga agaccctang atttctcatga 60  
 gtcttanggt agatttcggg cccatgggct aagtatgagc ccacttatct ttgtacatat 120

tagaataatg tttcattant tttgggactn ttattttangg ctccataatg taggtagggg 180  
 accctagaaa tgtangattt ttcggccctt gtatttttang gaacctagac tagttttttg 240  
 tattatgggt agttntgtaa tttcacatgc attaagtga tttttgatgt gtgtgtnggg 300  
 gaaataaatt aatta 315

<210> 8404  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8404

ctgctggctg atcattagaa ctaatgaact cagtgacaat ctncctggac agaagcttct 60  
 cctaaatgaa atgacaatca acctctatgt gcttagtcct ttcattgaaag actangtttg 120  
 aggcaatatg aagaacaacc taattatcac agtacaactt catttgcaac ttttcacaga 180  
 accctcattc ttgcagaaat tgttaatcca gatgagttca caagaaccat agcatagatc 240  
 gatattaact tctgattgga ctgacaacaa catttggtct tgctttcaaa gataagattc 300  
 ctcaatgaaa cacataactg atgcgatctc tatcatggac agtcagccat cacatacata 360  
 tctcatagtg cgtataccct ngcttcatac acatctt 397

<210> 8405  
 <211> 234  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8405

agtctattct gcaaatacta gttntgaatc tctgctggag tcactacttg cctgtgctaa 60  
 gccttctcca cagtctgggt gcattgctaa caagctctgc attcgatagc tcagtgtgtt 120  
 gctgttctat gcctngctgc ttgtgatcag aagtgtcatc tacagtgcaa tgctcactga 180  
 cattctcaag gatgacagca gttctaactt cgtaagcttt ctcttcagta tttc 234

<210> 8406  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 8406

tcttcagggt cgaagacaac cttcttttctt ccttttgtgg cttgggttagc ataactntta 60  
tntctcctct ncaattgatt tttcactctc tcatgaaact tcttcacata gtccgccttt 120  
gcttgagctt ctttatactt aanaacagaa acattatgca taggcaaaaag atcaagaagg 180  
agtagtgggg taaaaccatt aacaacttca aaaggagaaa caatagtggg gctatgaaca 240  
actctattgt aagcaaaatc aacatggagg taaacaacct tcccaagttt taagttcttc 300  
ttanaactgg ccctaagcaa agtcccaatg tccctataac aacttcc 347

<210> 8407  
<211> 139  
<212> DNA  
<213> Glycine max

<400> 8407  
gatgcatggg agatcctgac aaccactcat gaaggaacct ccaaagtga gatgtccaga 60  
atgcaactat tggctacaaa attcgaaaat ctgaagatga aggaggaaga gtgtattcat 120  
gacttccaca tgaacattc 139

<210> 8408  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 8408  
tatcacatga tcgagaagaa caacacatgg gagttagtaa atcgtcctca tggaacagat 60  
atcatagggt ttaagtgggt ctataagaca caactcaacc ctgatggcac catacagaaa 120  
cacaaggcga ggctagtatc taacgggttac tcacagccac ccagaataga ctacaatgag 180  
acattggcac caatagctca tcttgatacc ataagagctc taatagctct tgcgtcacia 240  
agaggatgga gta 253

<210> 8409  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8409

agtttctgac tatgctcttg tgatgtgtaa catgcttcan naagagagag caagaaatga 60  
agagccaatg gttaatacat gggcagagat gaaaaggatt atgaggaagc ggtatatgcc 120  
aactagttac tcaagggaat tgaaattcaa gctccanaaa ctaaccaag gcaacaaggg 180  
ggttgaggag tatttcaagg aaatggatgt gctcatgatt caagcaaaga ttgaagaaga 240  
tgaagaggta actatggctc gattcttaat ggttgactaa tgatgttngt gaatattgtg 300  
agctac 306

<210> 8410  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8410

gaaaaaaaaa tgggcattta cctggggtga aaagcaagag caagcctttg ctttgctcaa 60  
agaaaagctt actaaggcac ctgttctaac tcttcctgac ttttctaaaa cttttgagct 120  
agaatgtgat gcctctggag tgggagttaa agctgtattg ttacaagggtg ggcaccctat 180  
tgcttatttt agtgaaaaac atcatagtgc caccctcaac taccacacct atgataaaga 240  
gctttatgcc ttaataagag cctccaaac ttgggaacat tacctaattt ccaaggaatt 300  
tgtcattcct agtgatcatc aatcacttaa gtacattaga tggcaaagca agttaaacia 360  
gaggcatgca taatgggtag agtacctaga ccaatttoca tatgttatca aatacaaaaa 420  
agganaaaca catgtggtag ttgatgcctt 450

<210> 8411  
<211> 327  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8411

tcatgaggaa atgagaacct tanaaactac tttagcattt ctttttattg gaactaataa 60  
tcttaataga cttttaggat agtgtagaag ttcctttgac aaatctagaa atggatattg 120  
ttagtgctta gctctactga gttttaaaag attggctaag attttgtaa aacataagca 180

cttagacaat gaaagaaagc tggagttgct gcacatgatg tccaacgtta tgtcaaggaa 240  
 taagatcggg ctgcacaatg cacaaggcaa gataaaatgt caaatgaaga attgaagctg 300  
 cagaatccac gatgtcggat acaatgt 327

<210> 8412  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8412

tgccttgccc cttgatatat ttgagggact catgtgtcat ttatgaatga caanatttcc 60  
 ttgggataaa ggtagtgttg ccatgttttc aaagcacgta ctaaggcata caactcctta 120  
 tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
 tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240  
 aaagattttt gaaagtttgg caatgcaagt atgggggcat tagttagctt ttgcttaaga 300  
 acattgaaag cttcttcttg tttctctccc catttgaaaa ccaacatttt tcttgagcac 360  
 t 361

<210> 8413  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8413

aatactcagc tcgcatacaa gattctactt gcctggcact tcaaaacctt cagtgtgtgt 60  
 catatagang nctacctgta aatccccatg caagaatgca gttgtaacat ctaactgctc 120  
 caaggaaga ttctctgcag ctactatgct cagaataact ctgatggtac tcatctttac 180  
 aactggagag aagatctctg tgaaatcaat tccttggttc tgctgaaacc ctttcaccac 240  
 aagtgtcgcc ttgcatcttc ttcttccgct acattcttcc tttagcctat agaccacct 300  
 attctgtaat gccttctttc cttctggcca ttaagtgcaa gaccacgtct tattcttctg 360  
 aaggaagtca tcttattctt cattgctagc ttccacctca atagtgtcat tcccctgtgt 420  
 agcctccatg aaacattc 438



<210> 8414  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8414

gtcacctgcc gcatgcagct tgacgttaat ctcaaatgg caaagacatg accttgngtt 60  
 tgtttaccaa ggatgtcata caaagatgaa acaaatataa acctcttttt caagcaaaaa 120  
 ctttgtttcc tcaagaccac ttgaactatt acatattgat ctgtttggct acaatgaatg 180  
 actacattag atggacatgg gtaatgttcc ttgtcataa gaatgagttc tttgaggtat 240  
 tctttataat ttataaaaga gcttaaaatg aaaaaaagt ctgcgttact tcaattagaa 300  
 gtgatcatgg tggagagttt tgaaatgaga actttttt 337

<210> 8415  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<400> 8415

tccttgagaa aattcctaaa gaagctagag cttttctttt cacacctctc taatagctaa 60  
 gctcacctcc ttgagatgag aagctagagc ttagctacac acccctata atagctaagc 120  
 tcaccccat gacaaaatac atgaaaatac aaaaaagtcc ctactacaaa gactactcaa 180  
 aatgcctcga aatacaaggc taaaacccta tactactaga atggccgaaa tacaaggcct 240  
 aaacaaggt aaaatctatt ctaatattta caaagataag caggctcata cttagcccat 300  
 gggctcgaat tctaccttaa ggctcatgag aaccctaggg ccttcccttg gatctctggc 360  
 caatctactt ggagtcttct atccaatgcc cttgcgggat atgattggat cattcctccc 420  
 ttcttctcat tctctctatt tgggtcacgc ttttttttgt ccagcagga tgatcgaatt 480

<210> 8416  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8416

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cattagctca aatgggggtgt ccaatagggtg cctgaatgat aagggtggtag tcaccgcacg 120  
cttgaggcaa tcaaaagcct ctttgcaccg gtcatacaaaa tcaaactcca cctcctgttg 180  
cacagattgg acagtggaaa ggccactttg ctaaaatctt tgataaagca cctataaaac 240  
cctgcatgac caagaaaaga acgaacttct tgcatgccaa aggggttaaag caattgtgaa 300  
ataacatcta tttttgcagg gtctacctct atgtccctac tggaaatgat atgcactaaa 360  
actattcctt tgtctaccat gaagtgcacat ttttcaaaat tc 402

<210> 8417  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 8417  
cagatataat ccacggtgga gtaatcatcc aaatgtaaga aggacaagtc ctccacaaca 60  
acaacagcct gtgccttcct ttcaaaatgc tgggtggtcca agcaagccat tgttcctcct 120  
tcaatacagc agcaggaaca acaacaacag tcacaacaaa gacaacaagc cactgaggct 180  
tctcctacac cttccttaaa agagttagtg aggcaaatga ccatccagaa tatgcaattt 240  
cagcaagaga ccagagcctt cattcagagt ctca 274

<210> 8418  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 8418  
tgaccaggaa ttacttgtat gggttggatg ttgaattctg tttgttcctg gtgcggagat 60  
gatggtacag cgggtgaacc agaagcggaa atttcttttg gtgaggtagc catggaaaag 120  
cagagcggtt ggaatgattt cgtaaacttc agaaggctat tgggaaatgc tggtaaaaac 180  
acgaatgcc aagcagatata aatttgaatg aagaatgtag aggggcgtgt gaagcaacgg 240  
tcgaattcgt tttggcttaa tagtgaacgt gctattaatg ttaagtgatt cgtttgggca 300  
cgttcaaatt gctgtagttg ctataattcc tctagcaaac aaatgccag cttgccctc 360  
agtttttcaa actgatttgc atgcaaagcc tttgtgaaaa tatctgctat ttgttcctca 420

atgtcaacat g

431

<210> 8419

<211> 240

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8419

cttaactcgg atgtccgac aggcgcattt tatttgagta ttttganaan ngaaaacaga 60

agcgctcgag aaaatcgaag gccataact cttcacacgg atgtcccgat cgggcgcata 120

atatgtcgag acgctcgaaa atgaacaaca gaagctctcg agaaagtcca atggtcataa 180

ctttccactc ggaggaccga atcaggcgca taatatatct atacgctcga aattgaacaa 240

<210> 8420

<211> 264

<212> DNA

<213> Glycine max

<400> 8420

agaaactaga acttatctac cccgccccta taataactaa gctcaccct atgccaaaaa 60

aaacatgaaa atacaaaaaa aaagtcctta ctacaaagat tactcaaaat gccccgaaat 120

acaaggctaa aaacctatac tactagaatg gccaaaatac aaagcctaaa cgaaggaaaa 180

acctattcta atatttacia agagaagtgg gctcactatt agcccatggg ctcgaaatct 240

accctaaggc tcatgagaac ccta 264

<210> 8421

<211> 281

<212> DNA

<213> Glycine max

<400> 8421

acgacaataa ctttctactc cgatgtctga ctgagtccca taatacatcg agacgctcga 60

aattgaatgt tgaagctctc agcaaattta aacgacaata actcttttac tcatatgtcg 120

gattgagtcc cgtaatatat ctagatgac gaaattgaat tctgaagctc taagcgaatc 180

caaacgacaa taactttttg ctgggatgtc cgatcgagtc ccgtaatcta atgagacgct 240

caaaatagga atctgaacct gcgagctaatt tcagacgaca a 281

<210> 8422

<211> 252

<212> DNA

<213> Glycine max

<400> 8422

agcttctgtc cctgagaaac tggttcccag atgacatagt ggagttgaag atgctgaaaa 60

ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120

tattgtgagt agcattttta aagacgcctc tgtttctgaa gctgatgaag atgttccaac 180

atcttccacc ccgaatgttt gtgtgcccga tgctaaaaaa tatggggcaa catcttaccg 240

cccaagtgct ga 252

<210> 8423

<211> 267

<212> DNA

<213> Glycine max

<400> 8423

tgaatgggtc gttcagtcctg accatctggt tgaggatgat aagctgaact aagcttcagc 60

tttgtcccca aggcttcatg tagactcgtc caaaatcgcg aagtgaacct cggatccctg 120

tcagatacaa tactagaagg aattccatgc aaccttacta cttccttgat gtacaactcc 180

acgagtttct ccattctata cttcatattc actgggataa aatgagcaga tttgggtgagt 240

cgatctacta tgacccacac agcatca 267

<210> 8424

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8424

tgagcctttt gtaaattggcg acataaagta gcatgttaat tgttttgtgn aaccaacaag 60

tcatcaacta cttctgcctg aaaggtaccc tanaggtact ggggtattga cgatgggagc 120

ttcccataag tggcttcgga tattgaaata ccagtgtca aatgaaccaa agtattgtat 180

gaccactccg taataggaag atacttgaac cactatgatg gtcgatcatg gacaaacgaa 240

tggaagtatt gctctaaaac atggttgagg acctccatct gtctatcgat ttggggatga 300  
taggcagtgc tcatccatag cttcgtccca cataagcgaa agagtttccg ccaaaaggca 360  
ctta 364

<210> 8425  
<211> 351  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8425

agcttttgac ggactatacc aagctcnatg actcggttatt gagaaagatc tatatatagg 60  
cttgctaagg atagagagag gaagactaca gatttggatc aagtaaagtg tgttaaggat 120  
gaagaaaagca aagtcttagt gcatgaaaaa gatattaagg aaaggtggaa ggcgtatttc 180  
cacaacttat ttaatgatgg atatggatat gactctagta gtctagacac aagagaagag 240  
gaccggaact ataagtacta tcgtcggatt cagaaacagg aagtgaagga agcgttgaaa 300  
agaatgagta atggtaaggc ggtggtgcc aacaacatac ctattgaagt g 351

<210> 8426  
<211> 291  
<212> DNA  
<213> Glycine max  
  
<400> 8426

agcttgcaaa tctattttta atccatgccc ataaataaaa taaaatctag ataagataag 60  
ataagataag atctagatga aatcaaactc agataagata agataagata agatctagat 120  
gaaataatat ctagatgaga tcaaactctag ataagataag atctaaatga aataatatct 180  
agatgagatc aaatctaaat aatatataaa tgagataaaa tctagataag ataagatttg 240  
gtagaataaa atagtctact ctctccaagt ccaagcccaa ttctggattc a 291

<210> 8427  
<211> 282  
<212> DNA  
<213> Glycine max  
  
<400> 8427

agctttcaac taaatttaca atgttcta atcaatttcaaa atggtgtaat cgattacaat 60  
atattggtaa tcgattacca gtgtgttga acgttgaaat tcaaattcaa atgtgaagaa 120  
tcacatcctt tcacaaaaat gctttgtga atcgattaca atgatttggg aatcgattac 180  
caatgataag ttttgaacaa aaatcaaaag atgtaaatct tccaaagggt ttcaagtttt 240  
tttaaagggt ataactcttc taatgggttt cttgactaga ca 282

<210> 8428  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8428

ttgatctacc accaccaccg ccaccatcat cttagttttc tattattttt aatattacta 60  
gtactttgtt ttctagtcgt gtatttagct atattatgac atttggataa tttagtattt 120  
ctttatttgc atggtttgat tgaacaatta tgaattatgt tatatgacta tgtgattttt 180  
atatatttga tctattcatg tttcttgctt catgattggg ttatattctt caatgtatgt 240  
cttgtgaatg attaatagta tatgggtgtc ttatacttgt tacgcacttt ggctttntgt 300  
tgatgccaaa gggggagaga aataggaatt aaatcaagaa ctacataag taatcaactt 360  
a 361

<210> 8429  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 8429

cttgatgcaa catttggaga ggttaatgaa acaacgagat gatgcgctcc atgagagggt 60  
ggatcaaattg gagaatagag atcataatga agaagaaagg aggagaagat ggaatgatgg 120  
tgttcctaga caaaaccgaa ttgatggat taaactcaac attcctccat ttaaaggaaa 180  
gaatgatccg gaggcctact tggagtggga gatgaaaata aagcttgttt tctcatgcaa 240  
caactatgag gaggaccaga aggtgaagct tgcgtccacg gagttttccg actatgctct 300  
tgtgtggtgg aacaagcttc caaaagagag agccagaaat gaag 344

<210> 8430  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 8430

agcttccctt tctttggcca atgctggact cgtttggcag tgatttcctt ggcaatttga 60  
 tgctcagaaa catcaatatc tatcactcca tcagtaggtc tgcccagata tttgttaatc 120  
 acagcagggg agaatttaac acactttcct ctgacaaaca ccttttgata ctcatcactt 180  
 tttctgttag atatgtcaga gggaatgttg acaatgaatt ccctgactaa gccttcatag 240  
 caatctccca acttgctgac agtcttcagc agtccagcag ccttg 285

<210> 8431  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 8431

agcttattac gtgttgatga ttataacaca tatattgtat atgaattgtt aaaataaatt 60  
 aggaattaat agttcaaata ataaaattaa aattgaagga aattaatata tcaagattca 120  
 acgataaatt ctttcaatgc atttttagtt taattattta ttaactcttt ttaattgaaa 180  
 ataatatagt tcgatttaat atatacatgt tttgtgccat gtaaataatta atactgtgtg 240  
 atgtttatat gatttatgag gtgtgataac atgttaagtt g 281

<210> 8432  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8432

tatgcattca atatcctgat gaggggtgtt catatgttct taagactgga ctaatacatt 60  
 tgctgcccac gtttcatggt cttgcagggt aagatcctca taagcatctt aaggagttcc 120  
 atattgtttg ttccaccatg aagctccctg atgtccaaga agatcatatc tttctaaagg 180  
 cttttectca ttctctggag ggagtggcaa aagattgggt atactacctt gctcccaggt 240  
 ccattttcaa ctggtatgac cttaagagga tattcttgga gaaattcttc cctgcatcta 300

ngaccactgc catcagaaaa gacatt

326

<210> 8433

<211> 289

<212> DNA

<213> Glycine max

<400> 8433

agcttatttc aggttgacta attgttgagt tctgcaaagc cccactaca aaccgataga 60

gagtaggata aaaaaagata tcagccctag acttagacag tttacagtta gtaaccatag 120

gagaatatat gagttgtgcc tctgccatgt gagttttctg taagagattt ctgatatatg 180

tactctgagt aagtactaag gagttatcag aaagagtctt gacctcaata ccgaaaaaat 240

agtcaaactt tcctagctgt tttaaagaga aagtggagtt aagtttggc 289

<210> 8434

<211> 363

<212> DNA

<213> Glycine max

<400> 8434

tgaaggaaaa ctggatgcat tggttaactt ggtaaccag ctggccttga atcaaaaatc 60

tgtacctgtc gcaagggttt gtggtttctg ctctctgtct gaccaccata cagacctttg 120

cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgttg caaatattta 180

caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240

cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcatatggt ccagccctca 300

gcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360

cat 363

<210> 8435

<211> 368

<212> DNA

<213> Glycine max

<400> 8435

tctcaggaag tttctcaagg gagctaccta tgctataaat acgagcatgt gtaacacttg 60

ttgtaactgt gatgaatgag agtcttctga gacacacttc aaagttcaac ttctctgcct 120



ctttttgatg tagctccatg tggagcttgt aagccttgga tcttcttcat caatggattc 180  
ctttgcttct tgaggtttga ttgcgatcta atatagaacg agaaagatga atggagactt 240  
cacatcaagt ataagatggg tatacaagaa gctcaccacc ataggaagcc atggataaaa 300  
gcttaaaggt agaagaagat gaatgaatgg agaggaagag aagagcatga aatttactgc 360  
ctctaaag 368

<210> 8436  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 8436

agcttgatat ttacctctaa gttcttctcc aaagccttca cttgttccac acttagtcga 60  
cgcttcttct cagattgatg ccccggttct tcaacacacc ctctctcgtc gagtccgtcc 120  
aacatcgatc ggaactccct gccatacatg tgggtggctgt tcctcggact atgttctctt 180  
aaaccaatgc aaattaaatc agacatcatc attattagta taaccaacat aaaacatgga 240  
tcttggatct gtgtctgaat tttaaaaaac aaaaaccaat at 282

<210> 8437  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 8437

agcttgccac cacgaagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaaag 60  
agagagcaag aaatgaagag ccaattgttg atacatgggc ggagatgaaa aggatcatga 120  
ggaagcggta tgtgccggct agttactcaa gggatttgaa attcaagctc caaaaactaa 180  
ccaaggcaa caagggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaagattga aaaagatgag gaggtaaacta tggctcaatt tottaatg 288

<210> 8438  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 8438

agcttctaca attgggtttt cctaattcct ttacactttc ctcacctctc aatgagccag 60  
 tgaaaaagaa tgtggcattc acttgagatg aaagacaaga gcaggccttt actttgctca 120  
 aagaaaagct caccaaggca cctgctctag ctctttttta cttttctaaa acttttgagc 180  
 tagaatgtga tgcctctaga gtgggagtg gagttgtatt gttacaagat ggacacccta 240  
 tttattattht taatgaaaaa cttcatggtg ccacctcaa ctacc 285

<210> 8439  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 8439

agcttggttct ttacctctct atcatcccc tcagcaagaa tcttgagcac ctctctgcg 60  
 agcttctggc agtgctgtgg atcaatctgc tgctcaaaag cctgagagat tttcctctga 120  
 agccaataag catcaatatc ctgcacattc aaacccatcc cttcattacc ctcttcata 180  
 tcctcatcat caattccacc catctgcata gccccagaac tgttcggctc tgtgacatcc 240  
 tcacctcttt cctcctcatc ctgcacaata tccaaatcac tc 282

<210> 8440  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 8440

tcaacatctc aatttcgagc gtctcgatat atgacgggac tcaatcagac atccgagtaa 60  
 aaagttattg tcgtttgaat tggctcagag cttcaacatt caatttcgag ggtctcgata 120  
 tattgcggta ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 180  
 gcttcaacat tcaatttcga gcgtctcgat atatgacggg actcaatcag acatccgagt 240  
 aaaaagttat tgcgtttga attggctcag agcttcaaca ttcaaattcc agggctctcga 300  
 tatattacgg gactcaatca gacatcccaa taaaaagtat tggctggttg aat 353

<210> 8441  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 8441

agcttttgagc caattcatac gactttaact ttttactccg atgtctgatt gagtcccttc 60

atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtcccgat aatatatcga gacgctcgaa attgaatggt 180

gaagctctga gccaatcaaa acgacaatac ctttttactt ggatgtctga ttgagtcccg 240

tcatatatcg agacgctcga aattgaatgt tgaacctctg ag 282

<210> 8442

<211> 288

<212> DNA

<213> Glycine max

<400> 8442

agcttttctt tgagcaaagc aaaggcttgc tcttggtttt caccacaggt aaatgccaca 60

ttcttcttca ctagctcatt gagaagtgat gcaattgtag agaaattagg aacgaacctt 120

ctatagaagc ttgctaacc atggaagctc ctaatatctc ccacactttt tgggggtgggc 180

cattcttga tggccttgat tttctcaggg tccatttga cccattttct accaactaca 240

aacccaaaga aaactatatt atctacacaa aaagtacact tctctata 288

<210> 8443

<211> 371

<212> DNA

<213> Glycine max

<400> 8443

tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60

agcacgaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120

gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccac 180

aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tcgatttctt aatgggttga ctaatgatat 300

ccgtgatatt gttgagttgc aagagtttgt tgaaatggat gatttgcttc acaaagcaat 360

ccaagtggag c 371

<210> 8444

<211> 280  
<212> DNA  
<213> Glycine max

<400> 8444

agcttcggta gttcaatttc gagcatctcg atatattatg cgcttgaatc tgacatctgt 60  
gtaaaaagtt atgaccattt tagtttatcg ggagcttccg tttttcaatt tcgagcgtct 120  
ctatatgtga tgagctcgaa tcggacatcc gagttaaag ttatgaccat ttgaatttct 180  
cgagtgtttt cgtttttcaa tcttgagcgt ctcaatatat tatgcgcttg aatctgacct 240  
ccgtgggaaa agttatgacc atttgaattt ctogagagct 280

<210> 8445  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 8445

agcttgtaga gttgagtctc gtatcagttt catcgattac cgatatctcg taatcgattg 60  
cactattgtt tgtgatgtaa gctaaattgg agcttgtagg cctatgatct tcttcaccaa 120  
tggatttctt tgattcttgg aagatgaatg acaatggaat ggagaaggaa gagagagagg 180  
agacccact ttaaggagaa gatgagtcaa gaagaagctc accatcatag gaggctatgg 240  
ataaaagctt ggaggaagaa ggagatgaat gaaggagag 280

<210> 8446  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 8446

agcttgtaag aagacaattt ccaattatgc tcccttatgc aatgacgatt aataagtctc 60  
aaggccagtc attatctact gttggactat acttacctaa cccattgttt agtcatggaa 120  
ttataaatca aagaatggat taaaagtttt aatacatgat aaagacaaaa caagcttgac 180  
ctctaccacc aatgtagttt tcaaagaggc tttcaaaagc ctgttaaggt atatataaa 240  
tatctatata ctgaccattt tccttaagca ttataatgta ttcactac 288

<210> 8447

<211> 281  
 <212> DNA  
 <213> Glycine max

<400> 8447

agctttgaaa aaattcatat gctaataact ttctactcgg ttgtccgatt caagagtatc 60  
 acatattgag acgctcgaaa ttgaacaacg gaagctctcg agaaattgaa atggtcataa 120  
 ctttttactc ggatgtccca ttcaggtgca tcacatatcg agacgctcga aattgaacaa 180  
 cgggagctct cgagaaattc aaatgggtcat aactttttcac acggagggtca aattcaggcg 240  
 catcacatat cgagacgctc gaaattgaac aacggaagct c 281

<210> 8448  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 8448

actcagcttt cagaaattaa attgtcataa cttctttctc ggaggttcga ttcattgcgca 60  
 taatatatcg acacccccga aattgaacaa tggaagctct cgagaaattc aaattgtcat 120  
 aactttttcac tcagaggacc cattcatgcg gataatatat caagacgctc gaaattgaac 180  
 aacggaagct ctcgataaat tcaaattggtc attacttttc aactggagtt tcgattcatg 240  
 cgcatcacat atagagacgc tcggaattga acaacggaag ctctcgagaa attcaaattg 300  
 tcattg 306

<210> 8449  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 8449

agcttccatt gttcaatttc tagcgtactc gatataattat gcgcctgaat cggtcctttt 60  
 agttaaagat tatgaccttt tgaatttgct gagagctttc ggtgttcaat ttcgagcgtc 120  
 tggatatatt atgcgcctgg atcggacctc cgagtgaata gttatgacca tttgaattat 180  
 gtcgagagct tccgttggtc aattttgagc gtctggatat attatgcgcc tgaattggac 240  
 cttcgagtga attagtatga ccaattgtat tg 272

<210> 8450  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 8450

tctacattca atttcaagtc ttttcgatat attacgggac tcaatcggac atccgagtaa 60  
 aaagttattg tagtttgaat ttgctcaagg cttcgggtatt ccatttccag cgtctcgata 120  
 tattacggga ctcaatcggga catcagagta aaaagttatt gttgtttgaa tttgctcaga 180  
 gcttccgtat tccatttcga gcatctcgat atattacggg actcaatcag acatccgagt 240  
 aaaaagttat tgtagtttca atttgctcaa ggcttcggta ttccatttcg agcgtctcga 300  
 tgtattacgg gactcaatca gacatccgag taaaaagtta ttggcgtttg aatttgct 358

<210> 8451  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 8451

agctttgaga aaattcatac gacaataact ttttactcgg atgtctgatt gagtcccga 60  
 atatatcgag tcgctcgaaa ttgaataccg aagcgctgag caaattcaaa cgacaattac 120  
 ttttactcgg gatgtctgat tgagccccgt aatatatcga aaagctcgaa attgaatgtt 180  
 gaagctctga gcaaattcaa acgacaaaaa ctttttactc ggatgtctga ttgagtcccg 240  
 taatatatcg aaaagctcga atgtgaatgt agaagctct 279

<210> 8452  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 8452

agctttatct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttcacccgac gaagacactg acaaaaactt atctttctct tcttggacaa agtatggcac 120  
 gctgggggca agtaaatattt cttcccatca gaccttggat gcaactgtga tcttataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccataccttcg ccttgccttg aatgttaagg 240

agcatcccaa tcacactgtc acaaacatTT ttc

273

<210> 8453

<211> 283

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8453

agcttgacag gttcagggtc atgtgctgnt attagtggag gcactccaat ttgcttgcca 60

gacctcaagg tgatggcact cacatttttt ggattttgca tagtttgtga aggcaatttg 120

tcagaatttt gggactgagc ttgggtcaat tgagtagcca tctgccccct ctgatttgtc 180

agactctgaa tgaaggctct tatttcttgc tgaaattgca tattctggat ggtcatttgt 240

ctcactaact cctctaagga aggttgagaa ggggcctcat ttg 283

<210> 8454

<211> 242

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8454

tctacattca atntcaagct tttcgatata ttacgggact caatcggaca tccgagtaaa 60

aagttattgt agtttgaatt tgctcagggc ttcggtattc catttcgagc gtctcgatat 120

attacgggac tcaatcggac atcagagtaa aaagttattg ttgtttgaat ttgctcagag 180

cttcggtatt ccatttcgag catctcgata tattacggga ctcaatcaga catccgagta 240

aa 242

<210> 8455

<211> 284

<212> DNA

<213> Glycine max

<400> 8455

agctttgaga aaattcatat gacaataact ttttactcgg atgtctgatt gagtcccgt 60

atatatcgag tcgctcgaaa ttgaataccg aagcgctgag caaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtcccg aatatatcga aaagctcgaa attgaatgtt 180

gaagctctaa gcaaattcaa acgacaaaaa ctttttactc ggatgtctga ttgagtcctg 240  
 taatatatcg aaaagctcga atgtgaatgc agaagctctg agca 284

<210> 8456  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 8456  
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 atgaagtatt tcagactatt tgcattccatg tctggacaac atatgtctgt atgtatgatt 120  
 tctaataaat taaaactcct ctttgcaccc tttttagact tgtagttttg cttaccctta 180  
 atgcaatcta cacaagtctc aaaatcagcg aaatocaaag tactaagtac tccttcattt 240  
 actaatcgct tgattctctc aataaaaaata tgtcctaata tctgggtgtca caatatagag 300  
 gttcttcatt cacaatacat cgttttaacc caacagaaac gtgcatagaa gtagcgt 357

<210> 8457  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 8457  
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 catgagtcac cacataaata acttcagctt cacacagtgc ataaatcctt atggcagctc 120  
 tcatgtagtc agtgaagaca aagggcattt atattttgct gaaacagatt tctttagtca 180  
 tatgcagggc tttctggagt gtatgtctga atgttgaaat ttaattagaa gggtagtcaa 240  
 taatccagaa acaaagatg gaagtcaagt tttatttata 280

<210> 8458  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 8458  
 tctacctcgc caggggcatg aattcgggtg ccacattcac gctaaccgct tcaactaaat 60  
 gtctgggatt ggcatcacia tggtttgctc gagctaattc ttgatcgtt aatgtctcct 120



ttagttcaat agcaatctca ctcatgattg gcctttcgct gggattttga gaaacacaag 180  
ccattgctat ttctaaggct ttccaagctg agttaatgtc ataatctcct tctaacccttg 240  
agtcaactat ggccctgata tcccctttct caatcaagga cctaaccctt ccacttatgt 300  
gacccttttc ttgattcctt tccattactg gttggggt 338

<210> 8459  
<211> 301  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8459

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aaatgcagct gatgattgtg tatatcacac gttcaatggg agtaaatact tattcttggt 120  
attatatgtc gattatatac tgcttgatag gagtaatata ggcttcttat aggagactaa 180  
aaaaatttat gaccaaaaat ttgaaatga aaaatcttgg ggaagcctct tttgtgttag 240  
gtattaagat actaagagat cactcccaag gtatcctaag actgttagaa gagagttata 300  
t 301

<210> 8460  
<211> 308  
<212> DNA  
<213> Glycine max  
  
<400> 8460

tgctaaccce tggatgctcc taatatctcc cacacttttt cgggtgggccc attcttggat 60  
ggccttgatt ttctcaaggc caacttggac cccattttta ccaactacaa atcctaagaa 120  
aactatacta tgtacacaaa aggtacactt ctctatatatt gcatagaggg tgtttttctt 180  
aacgactgaa agaacttgcc taagatgtcc taagtgtatc tctaagctct tactgtacac 240  
taaaatatca tcaaaataaa caactacaaa tctacctatt aaatccctta agacataatg 300  
aataagcc 308

<210> 8461  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 8461

agcttggtctc tggccattat aaccatttca ttcttaagtt ccttaacctt taaatagaca 60  
ttctggtcaa gtaagtgtt ttctgcatca aacagatcaa acttgatctt ctaatcatct 120  
atgcccattt ctagttttatc ctttcccata tccaccacac aaccggcgggt taacataaag 180  
ggatggccca aaatcaaggg gatttttagcg tctctttcaa tatccatcac aacaaaatct 240  
gcagggaac taaactgtt caccttaacc agaacatctt caattatgct ataa 294

<210> 8462

<211> 288

<212> DNA

<213> Glycine max

<400> 8462

tctcgatata ttatgcgctt gaatcatact ttcgtttcaa aagttatgac gatatgaatt 60  
tctccactgt attccgtgtg acaagttatg accatttgaa tttctcgata gcattcgttg 120  
ttcaatttcg agcgtctcga tatattatgc gcctgaatcg gacttccttg tgacaagtta 180  
tgaccatttg aatttctcga gggcttccgt tgctcaattt cgagcttctc tatatattat 240  
gcgcctgaat cagacttccg tttgaaaagt tatgaccata tgaatttc 288

<210> 8463

<211> 290

<212> DNA

<213> Glycine max

<400> 8463

tttagcttgc taagatacat ggccaataa tgagcctaaa gctgggacaa ataaccactg 60  
ttgttatgtc ttcagcacia atgcccaaat aggtgcttct aaccaatggc caattcttgt 120  
caaaccgaac cattcccaaa tctgtgccag ttctaaacta tgaacaatac aaccttgctt 180  
tcatgcccat ttcacctctt tggagggaac tcagaaaaat atgcaacact tagttatttg 240  
cccataagtc tcttatgcta gccaaagcgt taggcgtaag atagtgcaat 290

<210> 8464

<211> 284

<212> DNA

<213> Glycine max

<400> 8464

agcttgtgaa acaacaattt atcttttcca atacgaaaga tcccaaaaga tactttctttt 60  
tgcccaatta tgccactccc catgtccttc tattgggtta acaccatttt ttgtaactct 120  
tggcaaattc cttactctat gctacacttg attaggtgtc aacctaggtg gtagctcatc 180  
atattcttct tccccctttc taaaggtttt ttgttagtcc taaatggatg aatgctgggt 240  
aagaacctac gatgcgagtc aaataaaca tttttcctct cata 284

<210> 8465

<211> 301

<212> DNA

<213> Glycine max

<400> 8465

agcttcactc aaagattcat cggaaaattg atggaatgaa gaaattgtag cttttccctc 60  
tgttgtcttg gactcaagaa aatatttctt caaaaacttt tccacaactt tatcccaagt 120  
ccttaagcta ttaccttga atgaatgcag ccacctcttg gcttctctag ataataaaaa 180  
tgaaaataag ctgagccgaa tagcatcttc tggcacaccg acaatcttga caatgttgca 240  
tatctcaata tatgttgcca agtgtgcata tgggtcttca ttgggtagac catggaacaa 300  
a 301

<210> 8466

<211> 313

<212> DNA

<213> Glycine max

<400> 8466

tgtttcaatc catatataga tcgttgctac ttgcaaactt cattacaacc agccaataat 60  
gtgaatcctt cagggttgtgt catgtatact tcctctttca actcaccatt aaggaaagt 120  
tttttcacat ccacttgctc tatctcataa tcatagtatg ctgctatggc aagtagaatc 180  
cgaattgact tgagcattgc cacaggagaa aatgtttcgt cataatctat tccttcctgt 240  
tgacgatatc ctttagcaac aaggcgagct ttataggtct cgacctttcc atctgcttca 300  
atcttttttc ttg 313

<210> 8467  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 8467

agcttgtaat ctttggtttc ttgaagatat cttaacactt tctttgcagc tgtctagtgc 60  
 tctattcctg aattactttg atatctccca agcattccaa ccacaaatgc aatgtcagggt 120  
 cttgtacaca cctgcgcata cataaggcctt cctacaatgg aagcatatgg aatgtttctc 180  
 atttgttccc tttgaagcctt attttttagga cattgattca aattgaatct atcacctttc 240  
 acaatagggtg tcatgttggg tgaacaatct tcatccgaaa tattttctaga acttt 295

<210> 8468  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 8468

agcttaagca gtgatcaaac ttgctctttg gaactggcct tgtaaacata ttaacaggat 60  
 tgtgcagagt gataatctta tgaactttga ttcttctttc tgaccgaatg aagtgatatc 120  
 taacatctat atgcttggtt ctatcatgat gaacctaatc cttggccaag catatagcac 180  
 taaggctgtc acagtagatg ttagcatatt cttgattaat ttcgagatca tttatcagac 240  
 ctctcagcca aattccttcc tttgcagcct caataagagc catatattta gc 292

<210> 8469  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 8469

tgaaggcaaa ctagatgcct tgtttaactc tggtaaccta actggccatg aataaaaaat 60  
 ctgcacctgt caccagacta tgtggtttat gtcctgtgc caaccaccac acagaccttt 120  
 gcccttctat gcaacattat gaagaaattg aacagcctga agcttattct gcaaacatct 180  
 acaataggcc tctcaacct cagtagcaaa atcagccaca acagaacaat tatgacctct 240  
 ccagcaacag gtacaatccc ggggtggagga atcatoccaa ccttagatgg tcgaatactt 300  
 cacaacaaca 310

<210> 8470  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 8470

tctatttttca attacgagcg tctcgattta ttacgggact caatcggaca accgagtaaa 60  
 aagttattgt cgtttgaatt tgcttagtgc ttctgttttc aatttcgagc gtctcgatat 120  
 actacgggac acaatcggac acccgagtta aaagttattg tcgtttgaat ttgctcagag 180  
 cttctatttt caattacgag cgtctcgata tattacggga ctcaatcgga catccgagta 240  
 aaaagttatt gtcgtttgaa ttgcttaga gcttctgttt tcaattacga gcgtctcgat 300  
 atactacggg a 311

<210> 8471  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 8471

tattgggcct taaaatttct gatcttttat gaagcgcgat ctagagagta aaggaggcta 60  
 caactattgg agttagaaga aatgagattg actgcatatg aatcttcaag gctgtataaa 120  
 gagaggggta aaacttacca tgataaaaat cttctaaaga agaattttca accaggacaa 180  
 cagggtgctac tattcaattc aaggctgaaa ttgttccttg ggaagctcaa atctaaatgg 240  
 tctagaccat ttaccatcaa caaagtcaag ccatatggag cagtagagct ttgtgatcct 300  
 caac 304

<210> 8472  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 8472

agcttatgct gcaaataattt acaatatacc tcctcaacct cagcagcaaa atcaaccaca 60  
 gcataacaat tatgacctct ccagcaacag atacaacctt agatggagga atcaccttaa 120  
 attcagatgg tccagccctc agcaacaaca acaacagcct gctccttctt tccaaaatgc 180

tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
tat 303

<210> 8473  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 8473

tgaaattgaa caacggaagc tctcgagtaa ttcaaattgt cataacttat cacacggaag 60  
tccgattcag atggataata tatcgagacg ctcgaaattg aacaacgaat attctcgaaa 120  
aattaaaatg gtcataactt gtcacacgga agtccaattc aggtgcataa tatatcgaga 180  
agctcgaaat tgaaccacga aagctctcga gaaattcaaa tggtcataac ttatcaaacg 240  
gaagtctgat tcaggtgcgt aatatatcga gaagcttgaa attgaaccac ggaagctctc 300  
gag 303

<210> 8474  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 8474

agcttctgga tatattatgc acccgaatca gacttccatt tgaaaagtta tgaccatttg 60  
aatttctcga gagcttccgt tgttcaattt tgagcgtctc ggtatattat ggcctgaat 120  
cgaacttccg tgtgacaagt tatgaccatt ttaatttctc gatagcattc gttgttcaat 180  
ttcgagtgtc tcgatatatt atgcgcctga atcggacttc cgtgtgaaag gtattaccat 240  
tctgatttgt cgagaacctt ccttggttca at 272

<210> 8475  
<211> 302  
<212> DNA  
<213> Glycine max

<400> 8475

agcttcaaca tcagacctct tccagggtgc tggaactact tcacatggac ttgatggggc 60

ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagattttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagaaaaag actgtgttat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcaagttha ctgaattctg cacatctgaa ggcatcactc 300  
at 302

<210> 8476  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 8476

tgtccaatga ggtgacaatg aaaataccta gtgttactac ctgatataca gtttttgctg 60  
ctcgttttat tgtcaattcc aactgcatca atgcatcttt aacaagcata ccacgaacca 120  
gagcagcaac caagttgacc ttctttggac tctaaaatac catagaaaac aaggtatgta 180  
aaatgtgcaa ctagtcagat attaatacaga tccttcttaa accataaatt aaggcatttt 240  
ccacagcaaa ccaggaagg catttcaatg gctaaaaaat tagatgccaa cttttctgca 300  
aaataacatg 310

<210> 8477  
<211> 306  
<212> DNA  
<213> Glycine max

<400> 8477

ttaccaaggg cattggttgc tggctttggt aatactgaca aagaatttca gagcagaggt 60  
gtgaacttta gcttttattc ttgtgttttt ttggggataa aatattggga gggtcgaaat 120  
acagaactgg aggatctgga atttaatttt tttctcttcg tattactgat tatataagtc 180  
ctcatctggt tttgtccagg agaaacttcg ggaaccacag ctacattcgt aatagtggat 240  
aggtggactg tgactgttgc atctgttgga gattcccgtt gtataactaga taccagggt 300  
ggtgct 306

<210> 8478  
<211> 301

<212> DNA  
<213> Glycine max

<400> 8478

agcttgaatg acaatcattt catggggctc cgaataaaaag tggagaatgg aggataggcg 60  
aacagcgcta ggcaatcaat tcgcgggtct cccgactcgt tgggtggagga tgcataaatg 120  
acaatcaact catggggctc cgaataaaaag tggagaatgg aggataggcg aacagcgcta 180  
ggcaatcaat tcgcggggct gcatactcga tgggtggagga tgcataaatg acaatcaatt 240  
catggggctc cgaataaaaag tggagaatgg aggataggcg aacagcgcta ggcaatcaat 300  
t 301

<210> 8479  
<211> 309  
<212> DNA  
<213> Glycine max

<400> 8479

tcacaaagaa aatcatattg atatgacttc tttggaagtc ctcttacgag gctatgcttt 60  
ttaagctttg agattaacct taagctagca tgaccaagct tcttatgcca tatgcaatga 120  
ctctctttga ctgagagtaa gcacgacacc ttttgactag acagatcacc aagtttaatt 180  
ttatagaaat ttccttgtct cttagcatag aataatgaag atttggttctt attatggacg 240  
atacacatat ccttggttaa ggtgacattt tatccactgt cacataattg acttatgctc 300  
agcagatta 309

<210> 8480  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 8480

agcttgaatc ggaccttttg tgaaaagtta tgaccatttg aatttctcga gagctttcgt 60  
tgttcaatgt cgagcatctc gacatattat gcgctcgaat cgaacatccg tgtgaaaagt 120  
tatgaccatt tgagtttctc gagagcttcc gtggttcaat tccgagtatc tagacctatt 180  
atgtgcccga atctgacctt cgtgtgaaaa gttatgacca tttgaatttc tcgagagctt 240  
ccgatgttta atttccagcg tctcaatata ttgtacgcct gaatcggacc tcagtgt 297



<210> 8481  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 8481

tatgctgcaa atatttacia tagaccttcc caacctcagc agcaaaatca accacaacag 60  
 aacaattatg acctctccag caacagatac aaccctagat ggaagaatca ccctaacctc 120  
 agatgggtcca gccctcagca acaacaacag cctgctcctt ccttctgaaa tgctgctggc 180  
 ccaagcagac catacattcc tccaccaatc caacaacagc aacaacccca gaaacagcca 240  
 acagttgagg cccctccaca accttccctc gaagaacttg tgaggcaaat gactatgcag 300  
 aacatgcagt t 311

<210> 8482  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 8482

agcttctaaa ctttggttaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
 gatattctaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaaat 120  
 ctatcttact ttttacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180  
 tcaaatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240  
 agagaaaatg caaactcagt tttatactgg ttgggccaca cccttgtgcc tacgt 295

<210> 8483  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 8483

taataaatca atctatggct tgtaacatgc ttcccgccaa tggatatctaa agtttcatga 60  
 tgtcatcact tcatttggct ttgaagagaa catcatggat caatgtatat accaaaaggt 120  
 cagtgggagt aagatttttt ttcttgtgtt atatgtggat gacattttgc ttgcaactaa 180  
 tgataagggt ttgctatatg aggtgaaaca atttctctcg atgaactttt atatgaagga 240

tatgggagag gaatcttatg tcattgacat taagatccat agggaaagat ctcgaggcat 300  
 ttg 304

<210> 8484  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 8484

agctttactc tatagcctgt tgcttgagtg ctccggcatc ttggaaaaac aagaagcgtt 60  
 ctacaagcat aaatctttgt gctggtacag ttatttcaac taatgtatgg catcaacgag 120  
 gcgggatgat ctaatatata tagcccccata atatgaatcg cctgcaacat aaagaagcgtt 180  
 ggctgtttga tgacatgtgg atcaaataca gcttatttca acatgtgttt ggcttaaaaa 240  
 aagtgaatcc tgaatagtac ctgctctatt gtgagcccat ccaaacta 288

<210> 8485  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 8485

tgtcatggca atccttttggc aggaaaaatt ctaaaacaaa atcagcggag gcactccgga 60  
 gtggaatgcc cagaacagca tgcaagccaa acatgttata atgatgtgcc acaggatact 120  
 ccgccttgct gaaagaagta atgtcatttg caaaacaaag tttggtggtt gtgaaagctg 180  
 tcccaactac tccttgcccc cccaaaaggt ggcacttaga gcaggctttc aggaaaccca 240  
 ttagctctac atccgccaca aaactagcag catacacagt cgacacataa ttcattctcat 300  
 cgtttgaatg cccacatcca ctctttctg cttgttggat gcaggagcc cat 353

<210> 8486  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8486

atggatgcca ctaacaacat taacatatata ttggtataaa aaaacaatga cacaaaatgt 60

ttaattttca agaaatttct tatttaattt atcttatatt ttaagatgtt agatatattg 120  
 attttttttg tatattattt tctttataaa gtattacaag ataagattaa tatgattaag 180  
 ccaacttatt tgtagtattt tttattttta tggttnttat ttnttaatct tgatagctct 240  
 catgataaaa gtttaaaact ttatatcaaa tatcaaaata taggttatcc aaatgaaact 300  
 tcaattctga taagagaata gtatacaaaa tatttacgta actacatatg agttttac 358

<210> 8487  
 <211> 638  
 <212> DNA  
 <213> Glycine max

<400> 8487

ttgtatggta gaaggtgtag gacacccta tggtggctag aatccataga ggacctcacc 60  
 ttaggacctg aagtgtgaca acaaaccatt gagaaggcca agttgatcca agagaggatg 120  
 agaactactt agagtaggca aaaaagttat caggacaaga ggaggaaaga cttggaattt 180  
 gaggttggtg atcatgtatt cttgagagtc actccgtgga ctgggggttg tcaagcattg 240  
 aaatcccaaa aactcacacc tcgttttatt ggttcttcca aattctcaaa agtgtcggtc 300  
 ctgtggcata ccaaattgca ttaccctgt ctctttctaa tcttcacaat gtctttcatg 360  
 tgtctcatcc atgaccatc ttatgtgatc gaattggatg acgtacaagt gaaggagaac 420  
 ttgacatatg aaacattgcc tttgaggatc gaggataggc atacaaagca cctaaaaggg 480  
 aatgagattc cattggtcaa ggtgatatgg ggaagtgcac caaaaaaat gccacgtggg 540  
 aactagagag tcagatgcaa tgagcctatc cagccttggt tgagtcaggt aaatttcagg 600  
 aacaaaactt ctatacgggtg ggagagttgt acaccctg 638

<210> 8488  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8488

aaattnaata ggggagtcac aaatgtgtca agaaaataat taataggaca gagaaaatat 60  
 tagtaagtca ttcaagaaat atgtattttg tatcgactta tctatattaa atatacaaga 120  
 tgatcatcaa gtgtataggg cgaacattct gctcgaaaaa acaaaaagca tagaataatc 180

attggagtga tacctcctat attttttaggt gataaaaacc acttatttta ataaatattc 240  
tattgactaa tccgttatag taattgaatt tagctttaac ccactctagt gaataaaaga 300  
tttgttgcac ggtttgaata tatatttttt taaagatctt tcaactataa tctgagcact 360  
aaatattcaa tttatcaaat ggggttgggt caaggataag cactagcctt ctgtaatatg 420  
ttcaattaag ggtggatctc taatgagaga tatgcatatt ttagtttttc attgtgtctg 480  
gaattccagg atactcgtca agatgaaaag 510

<210> 8489

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8489

gggggtgaat taagatacaa aaattattcc caattacaat ttaacttcct tttggaatta 60  
ctcaaaagac aattcaaaaa taaacttctt taaagcaaaa gataaataac aataaataaa 120  
agaagtttaa gggaagagag aatacaaact caaattttat actgggtcga ccaccctct 180  
gcctacgtcc agtccccaag cagcccgctt gagatttcca ctatctttaa aaagcttttt 240  
acaaactctg aaccacacag gaacatcctt cccttggtgtt cagatatcct tacaacttaa 300  
aagaccatcg gtctcttaaa cagatctctt tgaataagaa gaataatttt ctctcattaa 360  
gaaaaagata ttacaattga agatcgatca agattcctta ttgaatttgc agtgtnttgc 420  
caaggaatat tttgagagt 439

<210> 8490

<211> 448

<212> DNA

<213> Glycine max

<400> 8490

agcttcatt gttcaatttc gagggctctg atttattatg tttttgaatg agacctccga 60  
aataaaagt atgaccattt gaattgctca agagcttcca ttgctcaatt tcgagcgtct 120  
cgatatatta tgcgcctgaa tccgacctcc gaggtaaaag gtatgaccat ttgaattgct 180  
caagagcttc cgttgttcaa tttcgagcgt gtcgatatac tatgagcctg aatccgacct 240

ccgagagaaa agatatgacc atttgaattg ctcaagagct tccattgttc aatttcgagc 300  
 gtctcgatat attatgcgcc tgaatcggac ctccgagtga aaagtatatga acatttgaat 360  
 tgctcaagag ctttcttttg tcaatttcca gccgtttgat gtattatgcg ccctaataccg 420  
 acctccgagt gagaagtttt gaacattt 448

<210> 8491  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8491

tgtatcagta taacccttcc agtttcaatt cagagtctcc atattcgatt aattggtggt 60  
 tagttcttct taagtactta agtatggcct taaccatttt ccaatgttcc tcaactgcact 120  
 agcatatggt actctactca tgcgttctct ttcttcagga gttggtggac aattctccct 180  
 accaagagta attccaacac ctacaggcaa atagcctcgt ttggaattat ccatgatata 240  
 tctctntaag atagtatcaa tgtacataga ttgggagagt ccaagcaacc ttttagatct 300  
 atctctataa atctttatac ttagaatata gactgcttct cccaaa 346

<210> 8492  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8492

agcttccatt attaattttg aggggcttta tatttttatgg gactgaattg tctcacctga 60  
 gtaaaaagtt attgccattg gaatttgctc gggctcttct ttctaatttg gagcatctca 120  
 atatatttcg ggactaaatc ggacatccga aaaaaaaatt attttcgttt aaattttctc 180  
 tgatcttccg tttttaattt cgagtgtctc gatataattac aggactcaat ctgacattcg 240  
 agttaaaagt tattgtcttt tgaatttgct cgtagcttcc gatttttaatt tcgagcgtct 300  
 cgataacta tgggacttct gagtaaatag ttattgccgt tataatctgc tgggagtttc 360  
 tgtttttaat ttcaagcatc tcgatatatt aggggactca atnggacatt cgagttaaaa 420  
 agttatggtc tttgaatttg ctcggaactt tcgcttttaa tttcgagcat cttgatataa 480

ttacaggact

490

<210> 8493  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 8493

agcttgaaga caagactata cgaggtgttt gtctttttta tagcaatata tctaagggtt 60  
accgtgtcta caacttgcaa actaagaaac tcgtcatcaa tcgagatggt gaagttgatg 120  
aatatgcttc atggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180  
aactacctca agaagaagat gaggaagaag acccaggtga agcaccttct cttcatcac 240  
aacaacaaga tcaagaacta tcatcaccag agtctactcc aagacgagta agatctttgg 300  
tggacatata tgaaacctgt aacttggcca tacttgaacc tggaagcttt gaagaagcgt 360  
caaagcacga agtatgggtc aaggccatgg aagaagagat acagatgatt gagaacagcc 420  
acacatggga gttagtaaata cgt 443

<210> 8494  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8494

agcttcacaa aagtttgtat ggcttgattc natcttctat acagnggtac aagaagttta 60  
atgagtttat gagcaactca cgattcaaaa gatgtgacat ggaccattgg tgctatgtta 120  
aaaaatatac taatagttat gttatccttg ttgggtatgt tgatgacatg ttgattgtag 180  
gatctagtac ggcagaaatt aacaggttga agcagtagtt ggcagaaaac tttgaaatga 240  
aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcagaag 300  
gaattttgaa gctgtctcag gagaaatata tacacaagtt gcttgacagg ttttaccttg 360  
gagattctaa gaccaggaat accccttgg gatctcattt gaagttntca aagaagtaat 420  
ctttgcagac agatg 435

<210> 8495  
<211> 410

<212> DNA  
<213> Glycine max

<400> 8495

agcttactaa ggataggagt ctctatatTTT ttctttgacg actaacataa gcgtcgtgtg 60  
atttgctctc aaagtcccta cctgcctat atacattggc cagcccccat cattgcaaaa 120  
gctacttggt ctctcaaaca tggttcattc atcataaaaa acaatgaatt ttacctcccg 180  
tgcccataga tcttcatatg tcgaggctat cagctttgag ctgatgccaa ccagctgaag 240  
ctccctccta tgcacagcct tcacagatga gaatcgatcg acagagttca aggtggaata 300  
tagagatgtc ggatgagctc aaactgcctg tgctcgtcta tcaaccagcc ccagagatag 360  
aactcatctg ggcattaata tctggctgcg aacccatgta cacatgcaca 410

<210> 8496  
<211> 541  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8496

tattaagata ctaagattat gaacgatgaa atccaatcct atgttcctca ttattatnca 60  
agncgntatt attttcataa ttacgtatt tccgacgcac taaatttcgt tatttttgta 120  
tttcccgat ttctgttatt tctgtcattt ccattatttt tgtaaataccg ttatttttac 180  
ttttctttta ctttaaagtt gtctttagtt aatcaaacca aaaccaatga catttgatta 240  
aatttgtaaa taactattaa actgataacc tgtatccaaa tgaattaagt aaactcaagt 300  
tcttggtggag acgaactcgt ttataaatgt gaaacctaca atgtcaattg gtacgcttgt 360  
caaaagtctt aacaagttca tggcgctggt gccaaaggact tgagccatcc acttagttct 420  
ttcggaataa actttcaggt tgataggcta ttttactctg gaaattactt ttaatttgta 480  
ttaaattcat cttttatttc ttctcaccct tgacttatta tttacatttg ataaatttct 540  
c 541

<210> 8497  
<211> 557  
<212> DNA  
<213> Glycine max

<400> 8497

agcttttttag taaaaaaata aatatttaaa tatttataga gcaaataata ggctgagtac 60  
cctaggtata aatagttata ttaagtcagc tgectccttt tggcctcatt ttcgtttttc 120  
cccttctoct ctcaaaaccc tttctttttc ccgcagccca ccaaaccagt ctcagaaaaa 180  
tgacgatctt gaaccggttc accgttggat cgctcgtgaaa tttgagtatc atgttcgcaa 240  
cagaattccg agcattctca ccgttgggaa tttcgatatc atgtctgaac tgagagaaac 300  
acccttgcga ttgtagcctt tttctttccc gcagaaaccc agagctgtct tggtaaaact 360  
atgatcccggt tttcgttaac cgttggatta ttgtgaaatt tggatatgtt gttcgaaatt 420  
caattccgca cgcttccacc gttgggattt gcgagataat attcgtggag ggagaaaaag 480  
gaatcgcattg aagacagtat aagtggaggg ttcaatctct tctcgtctc tctgacgttt 540  
gggaattcta tcggagc 557

<210> 8498

<211> 486

<212> DNA

<213> Glycine max

<400> 8498

agcttctata gaaggtttgt tcttaatttc tctattattg cgtcacctct caatgagcta 60  
gtgaagaaga atgtggcatt tacctggggt gaaaaacaag agcaagcctt tgttttgcta 120  
aaagaaaagc ttactaaggc acctgttcta gctcttcctg acttttctaa aacttttgag 180  
ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240  
attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac atatgataaa 300  
gagctttatg ccttaataag agccctccaa acttgggaaac attaccttgt ttccaaggaa 360  
ttgtcattc atagtgatca tcaatcactt aagtacatta gagggaaaag caagttaaac 420  
aagaggcatg caaatgggt agagtaccta gattcaattc catatgttat caaatataaa 480  
aagga 486

<210> 8499

<211> 507

<212> DNA

<213> Glycine max



<400> 8499

agcttgacagt agtgggggacg cacggagaggt tgtttatatt gtttgagacg aacatataacc 60  
aaatcgcccta gctggaaatg gacgtcccga cgggtggcgat cagcatgggtt cttcatagtc 120  
atttgtgctt tcaataggca attttgcagt ttggtgtgca gagcttgtca ggtggtaaaa 180  
atggagtcctg cagcctcgac gggagatgtg ccggtagtat acggggccaa tgttagaggt 240  
ggtttgccat acgtgatctc gtatggagaa atgccggcag cagagtgggt tgacgtgttg 300  
taactccact caatcaatga aagagaagag tgccacaggg caagcctgtc atggacgaac 360  
gagcggaggt gttgctcgag agttcgatta aaaaccttgg tttgtccgtc tgactcaggg 420  
tggtacgctg tgctataccg gagtttgggt ccactaatgc agaataattc gcgccagaat 480  
gagctgagaa agatgggggtc ttgattg 507

<210> 8500

<211> 634

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8500

agcttccatg agtcaggcaa aggagatgtg tttgtttctg tcctttgaga tggatcatgat 60  
ggttccatcg ttcaagattg ctatgatgag aaccatgaag ggagagaagt cgaacttcca 120  
gatcagagca acgagcatga agccaaacac gatacggatt gtgatagaaa cagcataaat 180  
tgtgtagttc ttcacacctc ggaagatagc cctgcttgct aacacagcac tcacaatcac 240  
actgagtccg ggctccgtca agacaatgtc agaggcactc cttgctgcgt cggttgcatc 300  
atccactgca atgccaatgt ctgctttctt caatgctggg gcatcggtca caccatctcc 360  
ggtcattcca acaatgtgat ttctatctct caacctcttc acaatctcat acttatgtc 420  
tgcacatgta gaaaatctca tcagtttttc ttattaacct tattcatttc tctcttaatt 480  
tgtggcatca aggttttaca ttgtcaatta attttgatag gatcatacta ttgttaatta 540  
attagaaatc ttagtcaaact actataaaag tcaataattt tatcatatat gacaatctat 600  
gatcagatga cagntgagat atcaatgttt ttaa 634

<210> 8501

<211> 434

<212> DNA  
 <213> Glycine max  
 <400> 8501

cccaactggc catgaagaaa aaatctgcac ttgtgggcaa actctgtggt ttaagcttct 60  
 ctggcgacca ccacacaaaa ctttgtcctt ctgtgcgaca atctgaagca attgaacaac 120  
 ctgaagctta tgctcgaaac atgtacaaca ggaccttctc aaccttaaca acaaaatcag 180  
 ccacaacaga atgactgtga cctcttcagc aacaggtacg atcccggatg gaggaatcat 240  
 cccaacctta gatggtagaa ttcgtcacia caacaacctt attttcaaaa tgttgttggc 300  
 ccaaacagac catatgttcc tccaccattg cagcaacaac aacaacaaca acatcccat 360  
 agacagaaac agttgatgcc actgcgacc ttccttgaag aacttggagg caaatgacta 420  
 tgcaaaacat gcag 434

<210> 8502  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8502

agctntaagc aaattcaaac gacaatcacg ttttactcgg atgtccgaan gagncccgga 60  
 atatatcgag acgctcgtaa ttgaaaacag aagctctgag caaattcaaa cgaccataac 120  
 gttttactcg gatgtccgat tgagtcccgat aatctatcga gacgctcgta attgaaaaca 180  
 gaagctctga gcaaattgaa acgacaataa ctttttactc ggatgtccga ttgtgtcccg 240  
 tagtatatcg agacgctcgt aattgaaaac agaagctctg agaaaaatca aacgacaata 300  
 actttttact cggatgtccg attgagtcgc gatatatatc gag 343

<210> 8503  
 <211> 620  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8503

agcttgtaat cgattacatc atttatgtaa tctattacca gacacaaaaa attcaaattt 60  
 caagtctgaa gagtcacaac tcttcagaaa ctaactgtgt aatcgattac cacatttatg 120

taattgatta ccagtaagga attttcaaaa ataactccta agagtcacaa ctgttcaaga 180  
 agtttttgaa tggccatcaa aggcctataa ataggtgact tgggatatga aattccttag 240  
 agtttttttg aacaacatag tcttatcctc tcaaaaccaa attgtcttat cactctcaaa 300  
 atattccttg gtcaaaatac ttgcaaattc aataaggaat cttgatcgat cttcaattgt 360  
 aatatccttc tcttaaatag agaaaattct tcttcttctt attcaaagag atctgtttta 420  
 gagatcgagg gtctcttaag ttgtaaggat atctgaacac aaggaagggt tgcctctgtg 480  
 tggttcanag tttngtaaaa gaattctaca agatagttga tatctcaagt gggttgcttg 540  
 gggactgaat gtangcatan gacgtggcgg aactagtata aaatctgagt ttgcattnct 600  
 taaatcccta tctatcttct 620

<210> 8504  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 8504

atccttttcc tgtggctcctt gttcacaagt ttcttactaa gtcttttagct accggtgata 60  
 ttgatggcca atgtgaatga tcaaagctag gatttgctct taagacagat cggaaaattc 120  
 ctgattccgt gcgtgcgcag aatgggtctac ttccacataa caatatgtat gagataaccc 180  
 caatactcca taagtctcct tcaacactat gagatctatg gagcacttca agtgccacat 240  
 agtaagcact gccacaata tcattgaggc gttgatctgc atgtttatta gaagtcagag 300  
 ctggtagtga aaaaaccaac aagaggatat caccgattac aagagaatga atga 354

<210> 8505  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<400> 8505

tgctaacaaa aatattcatg taggtggacc ttcttcttct tatcatgact cacagcagcc 60  
 tcctatccct cttccattcc cacctagagc aatttcaaac aaaaagatgg aagaagcaga 120  
 aaaagagatc ttggagacct tcagaaaaag tagaggtgaa catacctcta ctagatgcc 180  
 tcaagcagat tccaagatat gctaagtttc taaacgagct gtgcaccac aaaaggaagt 240

tcaagggcaa tgaaaggatt agcatgggca gaaacgtgtc agcattgata ggtaaactctg 300  
 ttccatcatat tccctgagaaa tgtaaggacc caagtacttt ctgtataact tgcattattg 360  
 ggaacagtaa atttgagaat gccatgctag atcttggagc atcagttagt gtcatgcctc 420  
 tgtccatttt caattcttta tttcttggac ctttgggaatc tacagatgtg gtgattcatt 480  
 tggcaaat 488

<210> 8506  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8506

gcaagcttct tagtctcaga tgatgcacct ttnttttagc tacctcatgc actcctctaa 60  
 tgactatggc attatttctg gcactaaact gctgagagtt ggaagccatc ttctcaaata 120  
 aatttctggc ttcaacaaga gtcatgtctc caagggtcc accactggta gcatctatca 180  
 tacttctctc catattactg agtccttcat aaaaatattg gagaagaagt tgttctgaaa 240  
 tctgatggtg ggggcaactg gcacataatt tcttaaatct ctcccagtac tcatacaggc 300  
 tctctccact gagttgtcta atacctgaga tacccttctt gatggctgtg gtcctggaag 360  
 cacggaaaat tttttctaag aatactctct taaggctatc ccaactcgtg atggaccttg 420  
 gagcaaggta ataca 435

<210> 8507  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8507

ttgaacaata tatttgtcct tcatttaact gtctnttttc acggctgcca cgctcaacaa 60  
 agtattttcg acacctactg tacgttgatt tgaccaacgc tgttatggga atgttgcgac 120  
 aatccttcaa aaccttattg atacattctg agagggtggt tgtcatgtgg ccataccgac 180  
 gtcttctct atcataagcc atcgtccatt tttcttttga aatgcgatca atccatgttg 240  
 ctatggctgg actcagttca cgaaattttt ctagattttg atcaaaaatg tgctcgcaag 300

gagtataggc tgcacaaat tagttatgaa taagaatttt aagtatatat caaagttaaa 360  
 taaacttgac catgaaatat gaaatcttac ccaatttctt taacatttct tnttgtttgg 420  
 cattattgaa tttccgattg aaagtgtcg ctatgtgtcg cacgcagtag acatgatagc 480  
 cgtggggagg ttaccaacca agtgcttcgt tagcgac 517

<210> 8508  
 <211> 570  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8508

agcttggttc ccaacgctct gttaagctct ctaattttta taggtaaatc taggatcttt 60  
 gtcagatact atgctagatg gcacaccatg taacttgaca acctcactta tatacaaggc 120  
 ggtcaacttc tccaaggaaa atctgatatt aatgggaatg aagcgagtag acttagtcaa 180  
 tctgtcaaca ataaccaga tagaatctaa acctctaggg gttctagggt gtcttaccac 240  
 aaaatccatg gaaatactgt ccacttcca ctgggggtatc tctaagggtt agaacttccc 300  
 ttaaggactc tgatgttcta tcttagcctt ctgacagact aggcatgcat acacaaactc 360  
 actaacgtgt ctctgtatgt tgggccacca aaacatcatc tttaaactct gatacatctt 420  
 ggtagcacca ggatggatgc tcaaattact gctatgtcct tcctctaaga tcactttnct 480  
 aagttcaagc acattgagaa cacaaatctt atcttgaagt ctcgaaactt catctgatcc 540  
 aacattgaaa ctagtgtccc ttctgactc 570

<210> 8509  
 <211> 635  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8509

agcttttaac tcataatata ccagaattat attattttct attagttaat agttgaagat 60  
 gaactttata aaatatccat agaggaatta caaccaccat gtatccaaat atgacttttt 120  
 taaaatgcat agagtttgat aatagttaat aaaacaaatg aaaaggtaaa agtagaaccg 180  
 aacaggacat gaagagaaaa ataaggttac tgataattaa gacatttgta ttactttttt 240

tatctgcgtt tataagtatt atttattaat atagaataaa tacataaaca gaataacttt 300  
tctagcatta actaattgga tgagtgcaac taaacgttgt tgggttggttg cgcgcaactt 360  
aagtaaactt tacttacaat agaaagttta aatcttctaa atctaaagat tagtctcata 420  
attatataga aacattcggg taaaatcttg ctataacccc actccgttta attattaggg 480  
taccacggaa aataacaatc caagagtttg gcaaagttta atggatagaa naggaagaaa 540  
aaaaaatata tagacatgat gtaacctgga ccaaaaagtc ttacataaga taatatcann 600  
ttgtatctta ttcttcagtg atcataagtc cttat 635

<210> 8510  
<211> 490  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8510

ttcaaccctt ttctttcgta gtttctctga ggtaacctta acttcttcgc ctttccccta 60  
gttagtttaa gcttctctta gtatctcata ntttttgcgt accttaatag gatgttttta 120  
gacttcactt gaaaaccctt aaaactgaga tngttgcaaa agttaccttt tataaaattg 180  
atgttgtttt cgtgaccttc attgaacccc agccacattg gcgtaatcag aatttcaaaa 240  
tgacgtctcc ttgaagtaga aaccaaaaac accattttcg tcccttttaa aactgaatgg 300  
gtatttgacc caaatgttaa tatcaacctt gcccttgaaa tatatatgtt agtgcttagc 360  
tntactgagt tttaaaagat tggctaanaa tttgttaaaa cataagcact tagacaatga 420  
aggaaagctt gagttactgc acatgatgtc taacattatg tcaaggaatc agattgggct 480  
gcacaatgca 490

<210> 8511  
<211> 618  
<212> DNA  
<213> Glycine max  
<400> 8511

agcttaagct ccttcaactg cacaaggctc ttaatatttt tagagatcct tgtggaacct 60  
tcacccgacg aagacactga caaaaaatta tcttctcctt cttggacaaa gtatggcatg 120

ctgggggcaa gtaaattttc ttcccatcag accttggatg caactgtgat cttataccca 180  
tadcagctag atcttgacgg gtattcaagc catccttcgt cttgccttga atgttaagga 240  
gcgtcccaat cacactgtca caaacatttt tctccacatg cataacatca atacaatgcc 300  
taacgtcaag atcacaccag tacggaagat caaagaaaat ggacctcttc ttccatatgc 360  
aactctgact tttatccttc ttttgggtct tcttaaatac agtggttcagg tgttgaacct 420  
gctaataatac ctgctcacca gtgaacggta tcgggtgcaat atcatgctct tgacttccat 480  
taaaagcttt tctcagtcgt ttgtaaagat gattgggtgt tagaaagcgg cgatgcctac 540  
tgtagactgt ttttcttcca tgtttcagtg gtatgtaact tgtattttct tcacagatgg 600  
ggcatgcatg atgaccct 618

<210> 8512  
<211> 577  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8512

ccttgtatta atcttgaaac aatacttaac ttttgaatgt ttgttgaagt aatcttgaaa 60  
gcaacattgt tggattattc tttggcatca tcaaatcat gtattcatatc attcacaaca 120  
atattaggaa aaatcctttg aaatgacttt cttttaataa tcattgggttt atttatttta 180  
agaaaccctc aaatattaat atttaaactt aatatatata actttttatat ataaatgggtg 240  
tttatatttc tttttatata aaaacattct tcattttattt taatttataaa gtataaaaaat 300  
tatattttta aataataata tgtttttattt atgttgggtgc catccatatt tatattcacc 360  
tgtcaaatac agtgattgga caaatcatth gaaatgattt tctttntata attattgatt 420  
ttttatctta naagactctt agatatttta atttaaatta atatatataa ctttatatga 480  
aagggtgtta attcatttta tatcaaatat tttattttta tttgataaag atattttctta 540  
acattttgaa tcttttatgc acaataacat attatat 577

<210> 8513  
<211> 545  
<212> DNA  
<213> Glycine max  
<400> 8513

agctttcttg agaaaaacttc cttgagattc ttttttgaga aaacttcctt gagaagctag 60  
 agcttagcta cacacacccc ttcataact aagctcacct cttgagaag cttccttaag 120  
 atgattccta aagaagctag agcttagcta cacatacctc tttaatagct aagctcagct 180  
 cttgagatg agaagctaga gcttagctac acacccccta taatagctaa gctcaccccc 240  
 atgagaaaat acatgaaaat acaaaaaaaaa tccctactac aaagactact caaaatgcct 300  
 tgaaatacaa ggctaaaacc ctatactact agaatagcca aaatacaagg ctcaaacgaa 360  
 ggaaaaacct attctaatat ttacaaagat tagcgggctc atacttagcc catgggctcg 420  
 aaatctatcc taaggctcat gagaacccta gggccttccc ttggatctct ggcccaatct 480  
 actaggagtc ttctatccaa tgcccttgcg gagtaggatt gcatcaagca gtgtcatcca 540  
 cgtct 545

<210> 8514  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<400> 8514

agcttctcgc ctcttcacc tacattcggg aacttgcagc catcacaatg gccgttaaga 60  
 agtggcgcca ttatttggtta ggccaccct ttgtgattct cactgatcac cagagcttaa 120  
 gggacctaat gactcaggca gtgcagacac cggagcagca ctagtatctc attcggttat 180  
 tgggattcga atatagtatc cagtatcggc caagacgcga gaatggggta gcagacgtgt 240  
 tatcgagggt tgccggagaa gaagctaagg cctccttgta cctactttca gtacctcaat 300  
 tctcctttat tggtgacctt aagcatgagc tagccacaca cccagaattt ttgacgttgc 360  
 tggagaaaat ctgctaagac ttagcagtag tctctgagta taaaattgag aatggattaa 420  
 ttcttcacaa gcagtgcatt tggctttcca tgggatcttt catcattcgc gtactcatgg 480  
 aggaatttca cagcacacca acacgaggtc attat 515

<210> 8515  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 8515

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tcaagctttt ctgaaatcga aggaaaagat tgatgtgaat gatgagagga agcggacaca 120

gcaaaattgt tttctgccat tgatgaatcc ttctaagaga ttggacatta taccctccag 180

gttctgagtc tgtacgaaat gctgttggag ttcttcaaga gattggggca ttgtcagttg 240

atgaacaact cactcagcta gggcagaagc ttggctgtct tcctattcat ccatcaacag 300

gcagaatgct tattttttcc atattgatga tatgtcttga tccagcttta actcttgctt 360

gtgcattcga gtttaatgat ccatttgtgc atcccatttt acctgatgaa aagaagagag 420

cttcagctgc tagatctgag cttggttctt gtatg 455

<210> 8516

<211> 517

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8516

agcttgtgca ttcaatatcc tgatgaggat gttcatatgt tctcaagact ggactaatac 60

atttgttgcc caagtttcat gatcttgcag gtgaagatcc tcataagcat tttaaggagt 120

tccatattgt tttttccacc atgaaacccc ccgatgtcca ggaagatcat atctttctaa 180

aggcttttcc tcattctttg gagggagtgg cgaaagattg actgtactac cttgctccca 240

ggtccattac cagctgggat gaccttaaga ggggtgttctt ggagaaattc ttccctgcat 300

ctaggaccat tgtcatcaga aaagatatatt caccgatcan gcaagtggag agagcttgta 360

tgagtactgg gaaaaattca agaaattgtg tgcaagttgt cctcaccacc agattttctga 420

gtaactcctt ctacaatatt tctatgaggg acttagcaac atggagaaga gtatgattga 480

tgctgncagt ggtggagctc ttggtgatat gactctt 517

<210> 8517

<211> 560

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8517

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atttctcttaa agatttatgc aataatatgg cttttgtatc tatgattgaa cctaaaaata 120  
taaaagaagc cataatagat gataactgga tcattgccat gcaagaagaa ctgaatcaat 180  
ttgaaagaaa caatgtgtag aaattagtag aaaaacctga aaattatcct gtcataggaa 240  
caaaatgggt ttttagaaat aaattagatg aacatgggat aattattgga aataaagcta 300  
tgtagtagc aaaaaggat aatcaagaaa aggaatagac tatgaagaaa catatgctct 360  
tggtgcaaga ttagaagcca ttagaatgct cttagcatat gcatccataa tggattttaa 420  
actttatcaa atggatgtta agagtgcctt ttctaaatgg cttaattcaa gaagaggat 480  
atgttgaaca acccncgtgt tttgaaattc cggatacacc aaatcatgtt tattaattac 540  
aaaatggctc ttatggtttg 560

<210> 8518  
<211> 597  
<212> DNA  
<213> Glycine max

<400> 8518

agcttcatac atcagacca cttccagggt tgcgtgattc tacttcacat ggatttgatg 60  
gggcctatgc atgttgaaag cttggagga aagagggttg cctatgttgt tgtggatgat 120  
ttctccagat ttacctgggt caactttatc agagagaaat cagaaacctt tgaagtattc 180  
aaagagttga gtctaagact tcaaagagaa aaggattgtg tcatcaagag aatcaggagt 240  
gaccatggca gagaatttga aaacagcagg ttactgaat tctgcacatc tgaaggcatc 300  
actcatgagt tctctgcagc cattacacca caacagaatg gcatagttga aaggaaaaac 360  
aggactctgc aagaggctgc tagggctcatg cttcatgcc aagaacttcc ctataatctc 420  
tgggctgaag ccatgaacac agcatgctac atccacaata gagtcacact tagaagaggc 480  
actccaacca tactgtatga aatctggaaa gggaggaagc caactgtcaa gcactttcac 540  
atttttggaa gtcatgttac atcttggcag atagagagca aaggagaaag atggatc 597

<210> 8519  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 8519

ttgaagagaa tccttgtgga accttcaccc gacaaagaca ctgacaaaaa cttatcttat 60  
ccttttttga caaagaatgg caagctgggg gcaagttaat ttttttccca tcacaccttg 120  
gatgcaactg tgatcgtatg cccatatcaa cttgatcttg acggggattc tagccatcct 180  
tcgccgtgcc ttgaatgtta aagagccgcc caatgacact gtcaccaaca tttgtctgca 240  
catgcataac atcaatacaa tgtctaa 267

<210> 8520

<211> 498

<212> DNA

<213> Glycine max

<400> 8520

cctttaatct aagctagttg gtaaaggtag acacccttga ggggtgatcc ctgatgacct 60  
aaccttagga cctgaagtgg tacaacaaac cattgagaag gtcaagttga tccaagagag 120  
gatgagaact acttagagta ggcaaaaaag ttatcatgac aagaggagga aagacttgga 180  
at ttgaggtt ggtgatcatg tattcttgag agtcaactccg tggactgggg ttggtcaagc 240  
attgaaatcc caaaaactca cacctcgttt tattggttct tcctaattct caaaagtgtc 300  
ggtcctgtgg cataccatat tgcattaccc ctgtctcttt ctaatcttca caatgtcttt 360  
catgtgattg atccatgacc catcttatgt tatcgattta gtgacgtaca attgaaggat 420  
aacttgacat atgaaaactt tgcctttgat gatcgatgat tggcaaaca tagctcctta 480  
aaggaagga gatttcat 498

<210> 8521

<211> 315

<212> DNA

<213> Glycine max

<400> 8521

agctttgggg tcgatggccc caatgacatt tttcttttc atggaaaaag gccaaagggg 60  
ggacatgact ttcaaaagat gtggcggaac attgacattg tccgtgtacg cttgacattt 120  
atggcatttc cttacatggg cgcagcaatc gctttccata gtgatcttcc tggccatagc 180  
atgcccattg gcatgtgtcc caaatgaacc cccggggact tcctcaatca thtagtttgc 240

ctccttggca tctacgcac gcaagaaggt catgttcggg tttcgttggt acaggaaggt 300  
accactcaca aagaa 315

<210> 8522  
<211> 403  
<212> DNA  
<213> Glycine max  
<400> 8522

aacattaaat agcaccgttc acctaactga gaccaaaaac aaaattcgac ccgttggtt 60  
caccacggtc cctactacat atccgtcatg tcaaacttaa taattttcgg ggggacatcc 120  
ttcaattttc agcagtacca ccatacagcc tctcagaaga tttaacgaag atcattgcaa 180  
acggcttttg gttctccatg gctaacctca ccaacaagaa accttcagct tcctgggtca 240  
cccctctgta ctcatctatc tccatcatcc accaaaagca ccatcaaacc aaggaacgac 300  
ctgagatcaa tatccagccc atacagatga ttcttggtca agaccctgtt cctgaaaaac 360  
tggatcccaa acgaacaccg ggtgggaaag accctgaaaa ccc 403

<210> 8523  
<211> 438  
<212> DNA  
<213> Glycine max  
<400> 8523

ctaatacgtt tcaaaatfff tttatttaac acacaagaag atccgactcc agtgtataca 60  
aaataatctt attaaactaa agtattacct gttgagaatt gcagatgatt tggcccagag 120  
aaaatgaatg acaatgagga agaggagaac attaggaaca agagacagaa gagtataacc 180  
agatctttca aacacaaccc aaacagctag tgtgaccaac aatatcccca cagtaagggt 240  
ctttcgctc cacagtatta aatctgcaac tgcgttgaag catggcattg attcagcata 300  
gattcaaaga tcatgatcaa ttaccaattc attatfffct tctgagtctg acccatttcc 360  
cattgggtact aaatgcaaat aaataactaa aacaacaag cacaggcgca gcccatatag 420  
ctatttcaca gttaaaaa 438

<210> 8524  
<211> 467  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8524

agcttgagat gaggaagtgt gaaaggggta tcagtttgaa aaactgaggg gcaagctggg 60  
catttgctctg ctagaagaat tatagcagct actggtatct gaacgtgctc aaacgtctca 120  
cttaacatta atagcacgtt cactactgag ccaaaacaaa ttcgaccgtt gcttcacacg 180  
ttcctctaca ttcctcattc aaacttatat tttcgtggta atctcatttt cagcataccc 240  
caacagctct cagagattta cgaaatcatt ccaaacgctc tgcttctcca tggctacctc 300  
acaaaaagaa acttcagctc ctgggtcacc ctctgtacca tcatctncat catccaccaa 360  
agcaccatca aaccaggaac gacctgaatt caatatccag cccatacaga tgattcctgg 420  
tcaagcccct gttcctgaaa aactggttcc caaacgacaa cagggag 467

<210> 8525

<211> 406

<212> DNA

<213> Glycine max

<400> 8525

agtattacct ggtgagaaat gcagatgatt tgggccagag aaaaagaatg atcgtgggga 60  
ggaggagaac attggaaaca agagacagaa gagtataacc agatctttta aacacaagcc 120  
aaacagttag tgtgaccaac aatatcccca cagtaagggtt cttccgcctc cacagtatta 180  
aatctgcaac tgcgttgaag catggcattg attcaacata gattcaaaga tcatgatcaa 240  
ttaccaattc attattttct tctgattctg accccatttc cattggtact aaatgcaaca 300  
taataactaa aacaaacaag cacaggcgca gcccatatag ctattccaca gttaaaaaca 360  
ggtcccaaat ggacataaac aacacaccaa gggaaataaa agaaaa 406

<210> 8526

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8526

agcttgagaa tggaggattg ccttgagggtt tttctttttt gcaagcaagg aacacaacgc 60

caaactcaaa aatggaggaa cacaagaaag acaacgccac tnaatcatgg ggctccgaaa 120  
aaaggaaga atggaggaat tgcttgacgg tccactctta tgccgccatg gaacgccggg 180  
gccatactca aaagtggagg accccacgaa cacgcctaag caatagcact cagcgggccc 240  
caaaaaa 246

<210> 8527  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 8527

aacgctggtt ctacctcaaa accccttgaa ctacttcaca ttgaattatt taatccctct 60  
agaactatga atttaagcgt aaattactat ggcttagcaa tagtggaatga ttactcaagg 120  
ttcacatgga ctttggtttt gaaaacaaaa aatgaagctt ttgaggcttt tcgcaaactt 180  
gccaagatga ttcaaaatga aaaaggtctt aacattgttt cacttggaag tgatcatgga 240  
ggatgaatttc aaaatgagtc cttttaaaac ttttgagaag aaaatggaat tcaccacaat 300  
ttttctgccc aagaacacct caacagaat 329

<210> 8528  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 8528

agcttttgca agctggaatc atttattcta ttttcgatag ccaatgggtg agtcctgtcc 60  
aggtagttct gaaaaaaacc ggcctcaccg tcatcaaaaa tgagaaggaa gagttgattc 120  
ctaactgggt gcagaacagt tggagagtct gcatcgacta taggaggctg aaccagggtta 180  
ccaaaaagga ccattttccc ctgccattca ttgaccagat gcttgaacgc ctggcaggta 240  
aatctcacta ctatttcctt gatgggtttt ctgggtatat gcaaatcatt attgcttctg 300  
aggatcagga aaagaccaca ttcaactgcc ccttcggcac ttttacctat aggaggatgc 360  
ctttcggcct gtgcaatgcc cctggtacct ttcagcagt catgatcaat atttttagtg 420  
attttttaaa aaaa 434

<210> 8529

<211> 534  
 <212> DNA  
 <213> Glycine max  
 <400> 8529

agcttaataa aaatgttagt aggttgatgt tttttttacc ccaatttctt ataaacagag 60  
 taaggcatca aattaatggt agcacctaag ttataaaatg ctctatcaaa ggacaagttg 120  
 ccaatggcat aatctccttt aaaaatttgg catacttcgg catttcagca attgcctcaa 180  
 caaaaggaat gttaacatgc aatttcttaa acatttcaac aaacttatca tcctatttag 240  
 acctctgac atgatactga aggcttatgc aaatgttttg attttgattt taattttgca 300  
 ggtgatgaga cttgtacaca ttttggttct gactctaacc ttgcctttga tctctttgct 360  
 tttccaaga gaagtttagg taatgtctcg acccttggtt gtaggtatta aagtagggct 420  
 ataaataata cttcttcac caacatagtt aacttccta gggccctgat gtattggcag 480  
 cctacaaatc acattttctt attccccaca cttcctaata aacaaaaggg tggg 534

<210> 8530  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 8530  
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 catttcatga acttagttgc ttggtaagta agattgatga ttcttggtta tgacatcgta 120  
 gggttgcaca ataaacatgc atcatcttaa tcatctagtt aaaaaggact tagtaattgg 180  
 tatattgaaa ctcaagtttg agaaaaataa attgtgtgaa gcatgtcaaa aagggaaca 240  
 agttaaaaat tatatttcaaa gtaaaaacgt tgtttctact tcaaaacccc ttgaactact 300  
 tcatatagat ttatttggac cttcaagaac tataagttca agtggcaact actatggttt 360  
 agtaattata gatgattatt caagggtcac ttggactttg tttttgaaac ccaaaaatga 420  
 agctttggat gcttttcgaa aacttgccaa a 451

<210> 8531  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<400> 8531

agcttcacgc acaaatacata aaagctgggc ttaaccaaca cgaacccatc cccaacactc 60  
tcttaaagcg atacggcaaa tgcgggtctta tccaagacgc actccaactg ttcgacgcat 120  
tgccccgccg agaccccgtc gcatgggcct cctcctcac cgcttgcaac ctctccaacc 180  
gccctcaccg cgccctctcc atctcccgct cctttctctc caccggcttc caccgacgacc 240  
acttcgtctt cgctccctc gtcaaggctt gtgctaactt ggggtgttctt cacgtcaaac 300  
aaggggaaaca agtccatgct cgcttcttcc tatcaccctt ctccgatgac gacgttgtca 360  
agtcttcttt gattgatatg tacgcgaaat tcgggttgcc cgaataccga cgtgccgttt 420  
tcgactcctt ttcttccttg aatttaattt cttggactac catg 464

<210> 8532

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8532

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ccgttcattg atggtcggca agtatgatgg tcttaatgaa gatcctacac gtatttcggg 120  
tgtatctcac aggcggtttt aaaaaacctc gcgaattaac ttgggggtacg ggtgtagttt 180  
tggtgtatt gactgcatct tttggtgtaa ccgggtattc cttaccttgg gatcaaaatg 240  
gctatggggc aggtttaatt gtagcagacg atcccgactc taagtttgtc ctctgatgct 300  
attggccttt gctctacttt atgatctttc aactgggtaa cccaatttt ttgatgggga 360  
gcttttgaaa aaatgtgtta ttttcccc 388

<210> 8533

<211> 487

<212> DNA

<213> Glycine max

<400> 8533

agcttccttg agaaactacc ttgcgaaatt tcttttttta tctgccttga gaagctagag 60  
cttagctacg cacacgcctg taataattaa gtcacctgc ttgagtagct tccttgaaaa 120  
gcttccttga gaatattcct agagaagcta gagcttagct acacacactt ctctagtatc 180



taaacacacc tccttgagat gaaaactaga acttagctac acacaccccc tataatagct 240  
 aagctcaccc ccatgccaaa atacatgaaa atacaaaaaa gtccctacta caaagactac 300  
 tcaaaatgcc ctgaaatata aggctaaaac cctatactac tagtatggcc aaaatacaag 360  
 gcccaaaaga aggaaaaaacc tattctaata ttacaaaaga agagtggacc caaccttggc 420  
 cgatggtcgc agaaatctac cctgagcttc atgagaatcc tagggccttt ttagtagct 480  
 ctagctc 487

<210> 8534  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 8534

cttctggggg gacatcttga cttgctttcc taactgacat tcaccacaga ttctggcttc 60  
 ttctattttc agattgggaa tgcctctaac agcacctttg tcaatgattt tcttcatgcc 120  
 tcttaagtgc aaatgtccaa atctttgatg ccatattgtg acttcatctt ctttggagga 180  
 tagacatgtg gaggagtaac tggattcttg aagtgtccat aggtaacagc tgaactttga 240  
 taagctgccc tttcttagaa cttcggtcct tccatttgtc acctagcatt ctgaatttgg 300  
 aagtt 305

<210> 8535  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 8535

agcttgtgtc acgattcact gttttatttt ttagcgccac tcaactaacg aatcaccgaa 60  
 tgtaccatga gaggacaaag cacatagatg cgaaactaca ctctatgaaa gatgtgattg 120  
 aatctgagaa ggtgaaggtc gataatgttt caacagaaga aaacccggct gatatgttta 180  
 caaaatccct ctctagtgtc aagttcaagc actgcttggc cttgataaat tttgaggatg 240  
 cctaaagcag attggtagaa gtgcacccct gaatcgcaag ataagcactt gttgatttgg 300  
 agtcaagggt gagatttgtg gtgtgtgact caaaatcaca aatggcacia gtgggaagac 360  
 tttaagaggt gctattctaa cttaaattcag ttatgataac cgaattg 407

<210> 8536  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 8536

agcttagtaa agctaagcac tatcaatctc cccctttggc aaattttgtc taaaacatac 60  
 ttagacactt cctgagcagg tacgagcagt tatgccagtg ggatcagcaa ctttcattat 120  
 caaagcaaac aaccacaacg ggatgtgtaa gggcgacagg aaaattctgc aagttgcaag 180  
 tcggtttccg gatgtcaaga catctcacgt gacatcagct ttttgctccc cctgactcca 240  
 tgctcttact gctgtgaagc aggtcactgc agcatcttct atcagctact agtcttttcc 300  
 aggatgtcaa gacatctcat gtgacatcag ctttttgctt cccctgtctt catgctcgta 360  
 ctggattttc tatcagctac tagtttcaat agcttacat 399

<210> 8537  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 8537

ttgagcaaat tcaaacgaca ataacttttt acacggattt ctgattgagt cccgtaatat 60  
 atcgagacgc ttgaaattga ataccgaagc tctgaggatt ttcaaacgac aataactttt 120  
 tactcgaatg tctgattgag tcccgtataa tatcgagacg ctcgaaattg aatgttgaag 180  
 ctctcagcaa attcaaacga caataacttt atactcgaat gtctgattaa gtcccgtaat 240  
 acatcgagac gctcaaaatt gaatgttgaa gctctcagca aatt 284

<210> 8538  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 8538

agagcgtctc tgtatattac ctgactcaat cagacataca agtaaaaagt tattatcgtt 60  
 tgaaaatcct cagaacttcg gtattcaatt tcgagcgtct cgatatatta cgggactcaa 120  
 tcagacatcc gagtaaaaag ttattgtcgt ttgaattagc tctgaggttc agaattcaat 180

ttcagagcgtc tcaatagatt acgggactca atcagacatc cgagcaaaaa gttattgtcg 240  
 tttgaattag ctcaagagctt cagaattcaa tttcgatcgt ctcaatatat tacaggactc 300  
 aatcagacat ctgagtaaaa acg 323

<210> 8539  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 8539

tagcattctc atcaatggct ttatacttga attcttcacg ctaaacgccc acttgcacga 60  
 cccacatcga gtgaaacgcc tcaacaacca tgcccatagt ttttatcaac cttggcccct 120  
 gtctattgat ggagtgaccc ttctgcacca tactgtcaaa caactttaca ccgttgctca 180  
 actccatgac cagaagcacg gccgagaaat cctcgttctt cacttacatg cagacaatgt 240  
 tggcgagatc cgacaaagag cgcattatat gaatc 275

<210> 8540  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 8540

ttgaatgctc tattcaatgg agttgacaag aatatcttca gactgatcaa cacatgcaca 60  
 gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaacctc caaagtgaag 120  
 atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
 tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttgagg 240  
 gaaagaatga cagatgaaaa gctggtgaga aagatcctca gatctt 286

<210> 8541  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 8541

tgtgcctttt cacgtctttt atatgaatgt agcatataga tccaaagacc cttaggtgct 60  
 ttgttgatgg cttcttcccg atccaagctt caattggagt cttgtctttt acagacttag 120

ttggacatct gttgagtatg taaacagcag tgtagactgc ttcagcccag aatgtgttag 180  
 gtagtccctt ctcttgagc atcgatctag ccatctccat aactgtgcga ttctttctct 240  
 cggacactcc attatgttga gaagaatatg cgactgtaag ttgt 284

<210> 8542  
 <211> 331  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8542

actttgatta tccttctgat acaatgctgt caagaatgaa gattggatga aacctcaaaa 60  
 gaaatcttat tattcacctt acagcttga agaatgctga ttatccattt ttgttttttt 120  
 nttttttctt gaagcagtag ttctaggtcg tctcactttt ttcaaaatgt ttttcattat 180  
 taagaaaagg taacgaagat caaattcgag cttgttttat agtccaggag acttcacttg 240  
 ggggtattatt ctgcaccctt atcctgagat ctatataatg aagggaacca aaaagtacca 300  
 cagagttgga ccatggaatg gtttgtgttt c 331

<210> 8543  
 <211> 281  
 <212> DNA  
 <213> Glycine max  
 <400> 8543

tgtaatcgat tacacacata ctgttatcga ttatcagagg agttttttcca gaaaacattc 60  
 tcaacagtca catcttttta tctgtttctt aaatggccat caaaggctta tatatatgtg 120  
 acttgagaca caaattgaac aagatttttt cagaacaaaa aggtcttatc ctcttaaaaa 180  
 gcaaaattgt ttcatcctct taaaaattcc ttggccaaaa cacttgtgat tcaataagga 240  
 attatttgag tgcgcaaatt gttcaatcta tctctttcaa g 281

<210> 8544  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <400> 8544

agctttggaa atgattttcta tacaaaagtt agtcgtataa agcgactaac aaatcttcag 60  
 taatatcccg ccaaaccag aaaactccta atctcaaaca cagacttaag actctccac 120  
 ttaagtacaa cttctatctt agaaggatct atatctatac tgccttagga tatcacatgt 180  
 cctagaaaac taactttatc taaccagaac tcacacttgg acaacttagc ataaagttgt 240  
 cggttcctaa gggtttgcaa cacaatcctc aagtgtctct catgtcctt tctagtcttt 300  
 gagtatacca aaatatcatc tatgaaaact accacaaaac tatcaagata ggggtgaaag 360  
 at 362

<210> 8545  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 8545  
 agcttcccag gatctttcat ttttgaaatt tttaggtaga aaatcttctg ggtctcctgt 60  
 aagaagccta tatctctgtt agcaagcagt atatcatcgg catataatac taagaatatg 120  
 tatttactcc cactgaactt atgatataca taatcatcaa ctacatttgc ctcgaaacca 180  
 tatgaggtaa tgacttgatg gaacttgtaa taccattgac ggaaagcctg tttgagacca 240  
 tagatggatt tcttttagttt gcataccatg gactttgagt cacctaacac aaagttttct 300  
 ggttgcacca tataaatcgt ttcttcaatg tcaccattta gaaacgcaat cttgacatcc 360  
 a 361

<210> 8546  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 8546  
 tcgaacctct gttggagttg tcggttggtg ccactccata accgactcca ccttgttcgg 60  
 atccaccgca acccgcctt tagaaatcac gtgccctaag aactgcactt tctccaacca 120  
 aaagtcacat ttcgacaatt tggcgaacaa cttcctgtcc ctcaggatat gcaatacaat 180  
 cctcaagtgc ttctcatgct cctccttatt ccttgaatac actaggatat catcaataaa 240  
 cacaaccaca aactggtcca agtaatcatg gaatatacgg tt 282

<210> 8547  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 8547

agctttttat tctaattcag ttttccatga gagtacccta atgtctgaag tttatgggat 60  
 taagaagggtc attgaccaat ccttatttta tgatttaaca aaattaccta gtgaagggtgt 120  
 gcctttttgag ggtgcactaa ttgatgattg gaaattcgat ttttctgtgc atgatgcccg 180  
 ccggttgggtt ttcaacaacc aagcggatat gaccgaaagg cttcttgccg gatcattggc 240  
 ttttgaaagc cacatcctcc attaccttat tgttcgcata ttactcccta gatcttcaaa 300  
 ccttgctcag gtttctaaag aagatctcat tgtcatgtgg acctttcat 349

<210> 8548  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 8548

ttgagtttct ttgagcagat gttgaattat ggttgcatc caaattcaaa tacatgggag 60  
 attctttctg agggccacat tgcagataag aggatttctg aagccatgtc ctgcttgaaa 120  
 gaagctttta tggtgctgg tggttcaaag agttggagac caaagccctc atacttgtct 180  
 gcattccttg agctttgtca agagcaagat gacatggaaa gtgctgaggt ttttaattgga 240  
 cttctgaggc agtcaaaatt taataaaagt aaagtttatg catct 285

<210> 8549  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 8549

agcttgctga tatgatcgca ttttgagcat aaccaatca cctgggggggt actctacttc 60  
 tcttctttta gcatctgcga tggcttctcat tttctcctga gctttgagaa gctttttcct 120  
 aattgtttga aatattccct ccctgtctgt cagcatttca tcaacgacat tgagtttggga 180  
 tgatcctgcg agatattccg aaaaattgaa tggcttgccg ccaaatgtga tttcatatgg 240

agtcacccct cttcctgcgt tccatgaggt gttgtgagac cactccaccc agagaaggaa 300  
 ttttccccat tgtttaggtc tgccatggac g 331

<210> 8550  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <400> 8550

aactagatgc atgggttact tgggaaccca gctggccttg aatcaaaaat ctgtacctat 60  
 cgcaaagggtt tgtggtttgt gtccttttgc tgaccaccat acagaccttt gcccttccat 120  
 gcagcaacct ggagcaattg agcagcctga agcttatgct gcaaataattt acaatagacc 180  
 tcctcaacct cagcagcaaa atcaaccata gcagaacaat tatgacctct ccagcaacag 240  
 atataaccct ggatggagga atcacccata cctcagatgg tccagccctc agcaagagac 300  
 cagagcctcc attcagagct taaccaatca gatgggacaa ttggctaccc 350

<210> 8551  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <400> 8551

tccgttggtc aattttgagg tactcgatat attatgcgcc agaatcgaac atccgagtga 60  
 aaagttatga ccatttgaat ttctcgagag cttccgttgt tcaatttcga gcgtctcgat 120  
 atattgtgcg cctgaatctg acctccgagt taaaagttat gaataattga atttcacgag 180  
 agcttccgtt gttcaatttc gagcgtctcg atatattatg cgcttgaatc tgaccaccga 240  
 gtgaaaagtt atgaccattt gaaattctcg agagcttccg ttgttcaat 289

<210> 8552  
 <211> 280  
 <212> DNA  
 <213> Glycine max  
 <400> 8552

taggagagga tgtaaccgaa gtcacaaaag gagatgtggg tgttccaatt ttcttacctg 60  
 attgtgggga gtgtatagat tgcaaatcaa gcaagagcaa cctttgttca aagtttcctt 120

ttgaggtgtc tccttggatg cctagacatg ccacctctag attcacggat ttaaaaggag 180  
 atatcataca ccattttcttg tttgtgtcta gtttttagcga gtataccgtg gttgacattg 240  
 ctcatctaac caagattgat ccagcaatac cacccaacag 280

<210> 8553  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 8553

tccatcatgg gctaagtttg atttatgtag ggctgctgtc tattggaaaa ccatgaatgg 60  
 cctccctcct tcttcagtaa gtataaaagt attgagttaa ctctagctt gttacttaat 120  
 caattacctt ttagtaaaaa aatttacaaa ttttggcagg gagaaaagct aaaacttttc 180  
 tataatccag ctgcaactca acttgtccct aatgaagaat ttggaattgc ttttaatggt 240  
 aatttttgca atgtcacttg gttgcccaaa aatgtcattt tccat 285

<210> 8554  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 8554

agcttgggccc atttgctcca accaattatg cattggaagg atcagttgct atcgccggag 60  
 ctgcagtgca gtggcttaaa aacagccttg gcatcatttc tagtgcttca gaaatagaag 120  
 agatggcatt acaggttgaa tccactgttg gggtttggat tgtttgctcc atgggtggcgt 180  
 gaggatgctc gcggggtttg tattggaata acaaggttta caagcaaagc tcacattgct 240  
 cgagctgtgc tcgagagcat gtgtttccaa gtgaaagatg tcttggattc aatgcataaa 300  
 gattcacgag aaagtgaatc caaaagaag tttgtgctta gattggat 348

<210> 8555  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 8555

agcttattga tttttgtatc taacatttta gtctttaaag gcttatccat ccttcccttg 60



acctctggga agtgtttgag tcttaagcag ctacccaaac aaaggatttc gagagatgac 120  
 aaatagattg tcggcacaaa actttggagt tgagtgcagt ttttagcact tacgacaaca 180  
 aggttagtga gatgcccaac ttatttatga atgctaacca gattctcgca tccattaagt 240  
 gccaatcttc ttaaattcat ggactagac acataaggaa atttagtaac catacgacaa 300  
 taagataaat tcatgtaagt caaacttttg caatgatgta taaagaaaa 349

<210> 8556  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 8556

tgtgcattca atatccttat gaggtgttc catatgttct caagactgga ctaatagatt 60  
 ttctgcccac gtttcatggc ctgacaggtg aagatcctca taagcatctt aaggagtcc 120  
 atattatttg ttccaccatg aagccttctg atgtccaaga agatcatatc tttctaaagg 180  
 cttttcctca ttctttggag ggagtggcaa aagattggct atactacctt gctcccaggt 240  
 ccattttcag ttgggatgac cttaagaggg tgttcttgga 280

<210> 8557  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 8557

tgaatcggac atccgtgtga aaagtatatga ccatttgaat ttgtcaagag ctaccgttgg 60  
 tcaatttcga gcctctcgac atattatgca cctgaatcgg acatccgggt gaaaagtatt 120  
 gagcatttga atgtctcgag agttttcgat gattaatttc cagcgtatag atatattata 180  
 agcttgaatc ggacatccgt gtgaaaagggt atgaccatgt ggatttcaca agagctttcg 240  
 ctgttcaatt tcgagcgttt caacataaga tgcgcccga tgggac 286

<210> 8558  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 8558

agcttataat atatcgatac gctcgaaatt taacatccga aactctcggg aaattcaaat 60  
 agtcataact tttcacatgg atgtccgatt cgggcgaata atatgtcgag aggctcgaaa 120  
 ttgaataacg caagctcttg agaaattaga caggtcttac ttttcacacc gaagctctcg 180  
 tgaaagtcat atggtcataa cttttcacac tgagggtccga ttcagggttta taatatatcg 240  
 atacgcgcga aatttaacat acgcaactct ctataaatcc aaatggacat aacgtttcac 300  
 acggat 306

<210> 8559  
 <211> 290  
 <212> DNA  
 <213> Glycine max  
 <400> 8559

tcaacattca attacgagcg tctcgatata taacgagact caatcagaca tccgagtaaa 60  
 aagttattgt cggttgactt tgctcataac tttatcattc aatttcgagc gtctttatat 120  
 attacgggac tcaatcagaa atccgagtaa aaatttattg tcgtttgaag ttgctctgag 180  
 cttcaacatt caatttcgag cgtcttgata gattacatga ctcaatccga catccgagtc 240  
 aaaagttatt gtcgtttgac ttgggtcaga actttaacat tcaatttcaa 290

<210> 8560  
 <211> 344  
 <212> DNA  
 <213> Glycine max  
 <400> 8560

agctttgagg aaattcaaac gtctatacct tttgacacgg atgtcggatt gagtcacgta 60  
 atatctcgag acgcttgaaa ttgaataccg aaactctgag caaattcaaa cgacaataac 120  
 tttttactcg gatgtcggat tgagtcacgt aatatgtcaa gacgctcgaa atagaatacc 180  
 gaagctctga gcaaattcaa acgacaatac ctattgactc ggatgtcgga ttgagtcacg 240  
 taatatctcg agacgctcga aattgaatac cgaagctctg agcgaattca aacgacaata 300  
 actttttact cggatgtgcg attgagtcac ataatatgac gaga 344

<210> 8561  
 <211> 284  
 <212> DNA

<213> Glycine max

<400> 8561

tgaaaaaata gtgggcatca tgcaagatgg tctacttaag aagtttaaac tcacatcctc 60  
tattagcaca aacaacatgc atctatttga cacagaaggg aaaattaaga aatatgagaa 120  
tccagaacaa agtacaacct ttatcatggt aagttttgaa taagatcaat taacaataat 180  
gtttcacacg ctactatatt tatgtgattt cttatgcagt tcttgaagag ttcttcctcc 240  
ttcgggtgaa gtattatgag agaaggaagg tgagttttgt gttt 284

<210> 8562

<211> 281

<212> DNA

<213> Glycine max

<400> 8562

tggagaatcg tctcttcaac aatatgattt gaagacaatt gaagtaattc aaagaaaact 60  
ctttctcatg aaattgagat taattcattt tatttgttgt gtttttgtgc aggaaaacca 120  
ctttcttgga acactcggct taaaatggct atcagtgcag ctcggggatt agctttctta 180  
cacagctcca acaacctatgt catattcaga gatttcaagc ccttaaatat actacttgat 240  
gaggttagtt attttttgtt agttgatttc tcacgatgga a 281

<210> 8563

<211> 289

<212> DNA

<213> Glycine max

<400> 8563

ccttgagaga ggtcctatag agcctccctt gtcgtcggag gcaaagtatt gaccaattgg 60  
tgagagagca tagagtctct ctctcacacc atcttcagtg gtgcgaatgg agcaattgag 120  
aagagagtaa cttgccaaca ccggcaatat gcgttcaagc ctattagcca attgaggggtg 180  
tggttttggg agcaaagaag caatctcaga ggctgacaaa gtcgaactct ctgccttgtc 240  
tatgatatca aacaaattca gatcaacagc agcgttcaag attgccgga 289

<210> 8564

<211> 290

<212> DNA

<213> Glycine max

<400> 8564

taacaatcag tgtcatacta ttgatcaaaa catagcaggt ataaatatgc aatactagac 60  
tcaaaatatg caacaaacac tagacctaaa tcagtgtcac agaaattgga agaaaatatt 120  
ttatccaagc acaaacttca agccttattc catgtattgg ggggaagtta tggctggcca 180  
tatgggtaga ggtgtcatag aggagcaggt atggaggaag ggaccttgga ctgctgaaga 240  
ggacaagttg cttgttgagt atgtcaggtt gcatggtgaa ggcagatgga 290

<210> 8565

<211> 283

<212> DNA

<213> Glycine max

<400> 8565

ttgagccaat tcaaacgaca ataacttttt acttgatgt ctgattgact ctcgtcacat 60  
atcgagacgc tcgaaattga atgttgaagc tctgagcaaa ttcaaacgac aataactttt 120  
tactcagatg tctgatatag tctcgtaata tatcgagacg ctcgaaattg aatgttgaag 180  
ctctgagcta attcaaacga caacaacttt ttacacggat gtctgattga gtcctgtcat 240  
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aat 283

<210> 8566

<211> 340

<212> DNA

<213> Glycine max

<400> 8566

agcttcaaca ttcaattttg atcgtctcgt aatattacgg gactcaatca gacatccgag 60  
taaaaattta ttgtcgtttg gattggctca gagattcaac attcaatttc gagcgtctca 120  
atatattacg ggactcattc agacatccga gtaaaaagtt attgtcgttt gaattagctt 180  
agagcttcaa caatcaattt cgagcgtctc gatatatcac gggactcaat cagacatccg 240  
agtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt tcgagcgtct 300  
cgatatatga caggactcaa tcagacatcc gagaaaaaag 340

<210> 8567

<211> 280  
 <212> DNA  
 <213> Glycine max

<400> 8567

tgcatcaata taacccttta attttaactc agaatctctc cataagtgag gaactcgtct 60  
 ttagttcttc tcaagtactt aagaatggtc tgaagtactt ttcaatgttc ctcaccgagg 120  
 ttactggat attgactagc tgcacttagt gaataagcaa cattaggacg tgtacaaatc 180  
 atgatataca tgatagctcc cactgcgctg gcatatggta ctctagtcac gcattctttc 240  
 tcttcatgag tttaatatata ttttgtaaga tgacccttgt 280

<210> 8568  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 8568

agcttttcgt ttggcataac tatatcagcc aaatctatct caggtgtatt gtttggagca 60  
 caaaagttat attaaacatt tgtgtacaaa agctgacaag caagatgtca cagtagttat 120  
 atgtccactt tgtgccaag gagttcgctt agttcctgat caagatccaa acataacttg 180  
 ggagaatcat gtcaacaccg agtgcgaccc atcgaattac gagaaagtca caaagaagaa 240  
 aaaatgccct gtccctggat gcagagaaat attagtattc tcaaacacaa ttaagtgcac 300  
 ggactgcaca gtagagcatt gtttaaagca 330

<210> 8569  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 8569

agcttgctaa cccatggaag ctctaataat ctccacact ttttggggtg ggccattctt 60  
 ggatggcctt gattttctca aggtccactt ggacccatt tctaccaact acaaaacctt 120  
 agaaaactat attatctaca caaaaggtag acttctctat atttgcacag aggggtgtttt 180  
 tcctaaggac tgaaagaact tgtctgagat gtctaagtg atcatctagg ctctactat 240  
 aactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300

gatgcataag cctcataaag gtgcttggtg cattagtgag cccaaa

346

<210> 8570

<211> 343

<212> DNA

<213> Glycine max

<400> 8570

agcttatcac cctgacccca tattgcataa actttcttcac catgagcagc ctcatcacct 60

atctccatat cctcttttaa aattctcaat ggaaaaaaga tccgaatgaa ggtgacaaag 120

ataacaaaga taatcccaag gatttggact ccattttgcc tgaagccggt gctgagcttg 180

ttggaaccga aaccataaaa gaaaacaacg tattgagcat catgtccata gaacaaccgy 240

ttgagtcttg gatcagcaaa gagcccagtg aggagtcttc ctatggtttc tgcaatggca 300

tgagtatgga aactgccat aatatcatca accttctgca gta 343

<210> 8571

<211> 339

<212> DNA

<213> Glycine max

<400> 8571

agctttgctt ctacatagag gtttaagaat aatcttctga tcatggtgct ggaaagaaat 60

cttgttggtg aatcatgcac tgctttggtg taatactggt atggtcttcc caacaatata 120

tgagtcacct ccattggaac tacatcacac atcacccat cattgtatct tccaatggtg 180

aaacacacct caacctgcta agtcactttt acctcatcat cttcactaag ccactgaagt 240

ttgtatggcc taggatgtgg cttaatatcc aaattcagtt tgacattaac ctggaatttg 300

caacattggt acaacttcct ctatcaacaa ttaaagaac 339

<210> 8572

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8572

atactcgat gtccgataga gtctcggttat ttatccagac gtcctcanatt gaaagcagaa 60

gtccttagca aatcatatg acaataactt attctcaaat gtccgattga gtcccgtaat 120

atatcaagac tctcgaaatt gagaacagaa gctntgagca atttcaaacc acaataactn 180  
tatagtcgaa tgctctattg agtcccgtaa tatatcgaga tgctccaaat ngataatgga 240  
agctcgtaca aaattcanac gacaataaca ttatacaggg atgtctgact gagtcccgta 300  
atatatcgag acgtccana nnttgaaatg gaagctcgta ccaattcaaa cgacaatnaa 360  
cttttac 367

<210> 8573  
<211> 337  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8573

ctgcagctgg attccttttag tagggaatct atccttecta agatggagcc aaaccagtc 60  
accctcatta agaaactagc tctttcttcc tctattgect ntagttgaat acacctttgt 120  
ttgggttctct attaggttct taacctctc atgcaacttc ttacaaatt ctgacctaga 180  
ttcccccttct ttatgtataa aagaagtgtc caatgggagg ggaatgaggt ctaacagtgt 240  
taggggattg aacccataga caatctcaaa nagggactgc ttggtggttc tatgaaccn 300  
ncttgtgtan gcanattcta catgaagaat atactca 337

<210> 8574  
<211> 286  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8574

tggagaagag agtgattgtc gagtccaaac gtcaggtaga cgtcatctct atcctccagg 60  
aaggatcatg catatagtcc ctactgcaca ttgtctgan aatattccta attcacatca 120  
caatgtgtct gatgagaaac atgtctacct atatgaaacg cctagagatc tgtatggaaa 180  
gctcagactn tctagaggga tgatacttga tcatatgacg aaccagtatc tgaagatgtt 240  
acaacaatta atcaatcaac tagagaaaga cagcttcaaa tctcgt 286

<210> 8575  
<211> 280

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8575

actcggatgt cggattcaag ttcataatat atcgagacgc tcganattga ataattggaag 60  
 ctattgagca attccaatgg tcataacttt taacttcgga agtccgatga ggcacataat 120  
 atatngagac gctcgaaatt gaacaacgga agctctcgag aaattcaaatt ggtcataact 180  
 tttaactcgg aggtcggatc gagacgcata atatatcgag acgctcgaaa ttgaacaatg 240  
 gaagctcttg agcaattcca atggtcataa ctnttaactc 280

<210> 8576  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8576

tttgatatag cgaagaattc gtgttacggc cttaagatga gtagtggttg gagtctncat 60  
 gtattggctt atgagtccag tagcatatag aatgtcaggt cttgtgcacg tcanatatca 120  
 caaactaccc accanacgct tgaaatttgt agcatccacc ttgatgcttt gtcaaacttc 180  
 aataacttca ttttgcactc caccggtggt ccaattggct tatagctatc catcttgagt 240  
 ttcttgagca tcttcttcac atag 264

<210> 8577  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8577

tcagactgat ggccaaactg aacggaccat tctgtcgttg gaggaacctt tgagggcgtg 60  
 tgtcttagag canaatanga gttgggagag ntttctgccca ttgatagagt tcacttataa 120  
 aaatagttnt cactctacca ttggcatggc tccctatgaa gctctgtatg gtagaaagtg 180  
 taggacacct ctatgttggc tagagcccgg agaagacctc accttatgat ctgaagtggg 240  
 acaacaaacc accgagaagg taaagtgat 269



<210> 8578  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8578

gcggaagtat atgtaaatca caccctaga tttgaanact cagacaagcc taatcatgnt 60  
 tttagaatta aaaaggctnt atatggctta nagcaagccc ctaaggcttg gtaggagcat 120  
 tngagtaagt tcctttttaga aaaggatttc tcaagaggca aagtagatac tactatnttc 180  
 ataaagagaa nattacatga tanntttatt ggtcaacatt atgttgatga ataatattn 240  
 ggatctanct aatgaatata gtgcaaggaa ttctctcatg acatgcanag tgagtttgaa 300  
 atgtcaatga t 311

<210> 8579  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8579

agtatccttg tggaaccttc acccgatgaa gacactgaca nanacttata tntgccttct 60  
 tggacaaaagt atggcaggct gggggcaagt aatatttctt cccatcaaac cttggatgca 120  
 actgtgatcg tatacccata tcagctagat cttgatgggt attcaagcca tccttcgtct 180  
 tgccttgaat gttaaggagc gtccaatca cactgtcaca aacatctttc tncacatgca 240  
 tatcatcgat acaatgtcta actgtgagat cagccagta cggaagatca aagaaaatgg 300  
 acctcttctt ccatatgcaa cgctgact 328

<210> 8580  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8580

agaagctaga gcttagctac acatacctct cttatatcta tctcacctcc ttgagatgag 60  
 aagctagaac ttagctacac acccncata atagctaagc tcaccncat gacananaac 120

atganaatac aaaaaaaaaa atccttacta caaagactac tcaaaatgcc ccgaaataca 180  
aggctaaaac cctatactac tagaatggcc aaaatacaag gcccaaacga aggaaaaacc 240  
tattctatat attacaaaga taagcgtgct catacttagc ccatgggctc gaaatctacc 300  
ctaaggctca tgagaaccct anggccttcc ctnggatctc tagcccaatc tacttggagt 360  
cttc 364

<210> 8581  
<211> 171  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8581

cactcggatg cgatcagggtg cataacatat cgagacgctc gaaattgaac aacagaagct 60  
ctcgagaaat tcanatgggtc atatactttc acatggatat ccgattctgt ggtataatat 120  
atctagacgg tctaaattga acaactactc gatataattaa atggcataac t 171

<210> 8582  
<211> 302  
<212> DNA  
<213> Glycine max  
<400> 8582

acttctttct tgcacttata ttccttaaatt ttgtgttttag atcttaagaa tgagtctttt 60  
attctctggt atatcacaaa tgaattctgt atcttaatta tattgtccac attctcgaga 120  
tggacacata cagataccat ggccactcca tgtctgatcc tggcagcaca taccgtacac 180  
gtgatgagaa ttctgggtgta agacaggtgt attactataa tcatagataa atgtcctatg 240  
tgttaattaa tattgaggag tatactctat ctctgttata atctcctgtc caatctgatt 300  
at 302

<210> 8583  
<211> 234  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8583

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 ctttaataact caagagcttc cattgttcaa tttcgagcgt ctcgatatct tatgtgcctg 120  
 aatctgacct ccggtgtgana agttatgacc atctgaatnt ctcgagagct ctcgttgntc 180  
 aatttcgagc gtcttgatat cttatgcgcc tgaatcggac ctccgagtga aaag 234

<210> 8584  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8584

gctatgctga nataatntaca atagaacccc tcaacctcag tagcantatc naccacagca 60  
 gaacaattat gacctctcca gcaacagata caacctgga tagaggaatc accctaacct 120  
 cagatggtcc agccctcagc aacaacaaca gcagcctgct ccttccttnc aaaatgctgc 180  
 tggcccaagc agaccataca ttctccacc aatccaaca cagcaacaac cncagaaaca 240  
 gccaacagtt gagggccctc cacnaacctt cctogaagaa cttgtgaggc aaatgactat 300  
 gcagaacatg cagtttcagc aagagaccag agcctncatt cagagaataa ccaatcagat 360  
 gggacaatng gctacccaat tgaatcaaca acagtccag aattctgac 409

<210> 8585  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8585

gcgtctcgat atatgacggg atctaatacat acatccgagt naaaagatat ggctcgnatga 60  
 ataggctcag agcttctaca ttcaatttcg agcgtctcga tatgttactg gactcaatca 120  
 gacatccgag taaaaagtta ttgctgtttg agttgggtca cagcttcgac attcaatntc 180  
 aagcgtctcg atatatgacg ggactcaatc agacatccga gtaacaagat attgtcgtct 240  
 taattggctc agagcttcga cattcaatnt caagcgtctc gatatatgac gggactcaat 300  
 cacaca 306



<400> 8588

tgctaactat gtatggcana acttattact ggtgtcaaga catacaagtg atctngtata 60  
natctttctac actgggagtg atcacctgca gtcctcttga acccttacca cccactctgt 120  
catcatgccg agaactcanga agcccaacag gtttagcctt ctctaagtat tctgaacaaa 180  
attcaatggc ttcttctgca atgtacctct caacaataga tgctcttggga cgatatagat 240  
tctntgtata cccnttttaag atcttcatgt atgggtcaac cgggtacatn caccgtagat 300  
aaacaggacc acaacatttg atttctctga ccagatgcac aatcaagtga atcatgat 358

<210> 8589

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8589

tgcttatatt catcgnatc gcagcaattc tgattattgn tatgtacgct gtctgtcccc 60  
tttctncaat ttatagtttc ttcccatttt cttgtantag acctttgtgg tcctttatga 120  
ccaccaaca ataatagaat ggacaatcaa agcagaaacg taactattat atataaaaat 180  
tctcttaaac aataattttc ttattaaata taatgcaatt attataaaaa ttattattat 240  
gtgtgtattc attacaattc ccatcattgg ttagaanaat aatnngtann acatagnaaa 300  
natcaatatc canatgatga aatcttagtt taatacatta atacttgtgc taatcattag 360  
tatactattg attatattat aataataata agagtataaa cactttaatt taaataaatt 420  
gatgcgtcaa tagaaaatac tgttgaatga acaaatcgat ataagactta ttaacatacc 480  
ttatat 486

<210> 8590

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8590

gcgatctctg agtcacctgc ggcattgcaag ctngagaata tcaatgcgtc anagtcgcta 60  
accaatcacc ttngtttgaa gatggagttg tatcaactca naatggagat gggaggagat 120

ctccatgacc acatcaacaa gttcaatcgg ctagtaagtt aactggtgaa tgtggatgat 180  
aaattctcta atgaggagcn aagcgtcttt gtgttggtct cactaccaa gtcttccaaa 240  
gctttggttc anacgttgct tgtgggaaga tcaactttga atntggatga agtgactgtc 300  
gctcttagag aanatgatga gaatngaaaa tgtngatgat gaacacaatg caatagctgt 360  
gatggaatct gagcgaggga ggaatcattc aaggagacat gatggtct 408

<210> 8591  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8591

atgtgacatt cacttgggggt gaaagataaa gcaagccttt gctttgatca aagaaaagct 60  
caccaaggca cctgttctag ctcttcctga ctnttctaan actnttgatc tacaatgtga 120  
tgcctctaga gtgggtgtgg aagctttatt gntgcaaggt gggcacccta ttgcttatnn 180  
tagtgaanaa attcatgggt ccaccctcaa ctaccccacc tatgataaag atatttatgc 240  
cttaataaga gtcctccana cttgngaaca ttatcttggt ncaanggaat tgcattcata 300  
gtgatcatga atacttaaata aca 323

<210> 8592  
<211> 251  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8592

gtacctgtng caagggggttg tggtttgtgc tcctctgctg accaccatac agacctttgc 60  
ccttccatgc agcaacctgg agcaattgag cagcctgaag cttatgctgc aaatatntac 120  
aatagacctc ctcaacctca gcagcaaaat caaccacagc agaacaatta tgacctctnc 180  
agcaacagat acaaccttgg atggaggaat caccctaacc tcagatgggtc cagcccttag 240  
caacaacaac a 251

<210> 8593  
<211> 305  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8593

tgcattacca aaatttcatt ntccctctaa tctatataac tccactntca accctgcaag 60  
aaaaatcttt tgaatccatg gcacccatag agacaagaat tttcttaagc tctggaatgt 120  
gataaacttc aatcaattnt ctaacaacac catcatgcat tctgatttgt atagaaccca 180  
taccgataaa catacaagga gcttcgttac ccatgaggac gttaccacca gacttcttct 240  
cacatgtcat anaccaatgc ctgtgtcgac acatatggta agaacaactn gagtccaata 300  
cccat 305

<210> 8594

<211> 290

<212> DNA

<213> Glycine max

<400> 8594

ctcctctgct gactaccata cagacctcgg cccttccatg cagcaacctg tagcaattga 60  
gcagcctgaa gcttatgctg cacatattta caatagacct actcaacctc agcagcataa 120  
tcaaccacag cagaacaatt atgacctctc cagcaacaga tacaacctg gatggaggaa 180  
tcaccctaac ctcagatggg ccagccctca gcaacaacaa cagcagcctg ctccttcctt 240  
gcaatatgat gctggcccaa gcagaccata cattccttca ccaatcccac 290

<210> 8595

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8595

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acgagacatc ttgccaaaca aagtcagggt aacgataact cgcattgtgct ttttcttcca 120  
ttctatatgt agcaaagtca ttgatccagt catgtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
cttgattgtg catctgggtca aagaaatcaa atgttgtggt cctgtttatc tacgggtggat 300

gtactcnggt gagcgataca tgaagatctt aaaagggtat acagagaatc 350

<210> 8596  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 8596

cccatttcct gaactcatgt tttctggtgg ggttttttgt cttataagaa tgaaagagga 60  
gttggtggtg caagaagggt accttttcaa aaaaagagac gaagctcaca gtgctcaaaa 120  
catccctctt cttcaacagt gatggcttcg atgtctacga ttgcaagggc aaactcatct 180  
tccgctttga ctctatggt cccccgcac gtgacaagga cgagcttggt ctcatggatc 240  
cccatgggcg atctcttttc accctccgtc gaaagggtaca atttctttcc ctctcttttg 300  
gtaacaaacc cctattcagc atgaagagat cgtcgatcat cggaaagtct atgacgaccg 360  
tggccattga tgtgtacgat agccccattg tggaatacct ctttgaagggt gctt 414

<210> 8597  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 8597

aaaacaattt ttttttttgt ttcccttaga tatagatatg gctatgtatt ggtacattat 60  
tggtattgca attacaatat aaaatgctat ggtagtaacg ctgattattt gtgtctttta 120  
actaacaact ctagctggga atgggtactg cattgtctac actttgtgga caagcatatg 180  
gtgcaaaaga atatggcatg atgggagtgt atattcaaag atcatggata gttttgtcct 240  
taactgcact ttgtcttctt cccctgttga tcttgcgaat cccaattttg actctcttag 300  
accaggatga gaccatagca caagtggcag gaaccatttc cctttggaca attcctgtct 360  
tgatctcttt tattggctca ttactaccc agacattcct acaatctcaa agcaagaaca 420  
ttatcattgc attcttggcg gctttttc 448

<210> 8598  
<211> 456  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 8598

tcaagctgat tctatttcca attatatcgg agattgaaca ttactttatg aaagcatcta 60  
tttgggtgcag cattccgttt tctgttgatg acatatcgaa atcaatggag cagatagata 120  
tcgcagatat agagcccccg cctctaattc gtgaaaactc tggcttttagc tttttgttgc 180  
cacgcccaga ttgatagctt ttgggtgcaga ttgatccac cggatttctt acccacctcc 240  
atggtattac caagtcacaa caagtcagtg cttgaaattg ttgactttgg ttgtgtcaaa 300  
aacaagtcag tgtattaaac ataccaaatt tacatctcag tgatggatga canaaggtag 360  
atagatcatc acgtcgtgca agtagatttt tgggctgaca gtaaaaggga gtaattattgt 420  
tatatgggcc ttttctatga agtttcactc attttt 456

<210> 8599  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8599

ttactatgca aggaataaac aaggaaaatt ccttcatctg tcttttctta aattttccta 60  
ggttttcttt accattgttt aatacaaac atttgcatcc aaaaacatga agatgtgaaa 120  
tggtgagttt tctaccatta aacagttcat atggagtttt ctttaaaatg ggtcttatta 180  
aagccctatt catgatataa catgcaatat taatggcttt agcccaaaaa tattttggaa 240  
gaggagtgtc attcaataaa gttctagcaa tctcttccaa agacctattt ttcctttcaa 300  
caacacaatt ttgttgaggg gttctaggtg cagaaaaatt atgttcattg ccaagttntt 360  
cacaaaataa attcaaactt tttattttca aattcacccc catgatcacc tctaatagat 420  
attaatttga gattttccta ttggaataac ctttgcaagt tcctaaatgc ttg 473

<210> 8600  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8600

ttgaggattt tcaaacgaca ataacttttt actctgatgt cttantgtag tcccgaatat 60

atcgagacgc tcgaaattga atgttgaagc tctgaccaa tgcaaacgac gataactttt 120  
tactcagacg tctgattgag tctgttaata tatcgagacg cttgaaattg aaagttgaag 180  
ctctcagcaa attcaaacga caataacttt tttactcaga tgtttgattg agaccgcgcat 240  
attattgaga cgatcgaaat tgaatttgga agctctgagc taattcaaac gacaataact 300  
ttttgctcgg a 311

<210> 8601  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8601

agcttgaac gataaagaca ttcatgggtt ctgtcngcaa tnnngnatcg cgaaccactt 60  
gatccaatca gtggtgagaa gattggaaaa gtaaggccaa ttgcaccaga agactcgatc 120  
aatatagccg gcctctccca agtacctgac ggtgtagctt cgtggcacgt tgctgttagc 180  
aagtttacag attcgccgtt gctttctgca gcattgccag tttgggattc ttctaataaa 240  
agcattgagg cagttgtggg tgtcacaact gcactttaca gtgtggtgca gctcatgaaa 300  
gagctagttg agacgcatag tgggcacatg tatttgacct cccaaaagggt tacttacttg 360  
caacttccac anatgctcct ttactattaa attcta 396

<210> 8602  
<211> 459  
<212> DNA  
<213> Glycine max

<400> 8602

tgtcaaggag tgtgaaacaa tgctggacca ccttttccct gtttttatcc tgctccagtt 60  
tccactgaga caactcccca agctgaaagt tttgatcctt caacttcaac cactaccaag 120  
agtgatgggt tgggtgattcc gaaggaatta gctgagatcg agtacatgga gagcctttat 180  
atgaagagta ctgtatcagc ctttgcattg tttgcaggaa aattagaagt ggaagctcaa 240  
cagtttagcat tgttcattgc caccggtgaa gataagtggt tcagataaaa aacatggaaa 300  
aaaatccttg tctggaacaa gcaccaagta cctgctgggt tacgtgctga taatgtagag 360

gatagctttt cccatctatt ttcttcttta aatcgacgcc tttgtttgca cccttaaadc 420  
 tacacgatgt agaagctaata gaaaaatggg ttaatttat 459

<210> 8603  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <400> 8603

tataatatat cgatacgtc gaaattaaac atcggattct gttgatatta ttcaaattggc 60  
 cataactttt cacacggatg tctgattcga tcgcataaga tgtcgagagg ctcgaaattg 120  
 gacaacagaa gctcttgaga aattcaaatt gtcataactt ttcacacgga tgttcgattc 180  
 gggcgcataa tatgtcgaga cgctcaaaat taaacaacgg aagctcttga aaattcaaatt 240  
 gggcataacc tttcacaccg gtgggtccaat aaggcgcata acatattgag acgcttgaata 300  
 atgaaccacc gaagctcttt ggaaattaaa atgggcctaa cttttt 346

<210> 8604  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <400> 8604

tctgcttatg agtgcacaac tctttcaaga atttttcata tcttggaatt tgctttattg 60  
 catccagcag aggtatgttt acctctactt ttctaaattt ttccaatata tctttctctg 120  
 tctcttccat ttttttgttg gaaattgctc ttggagggaa tggaagaggg atatgctact 180  
 tctgtaaatc agaattacca gtggaagatt cacctgcata gaacttgta ggtaactttt 240  
 taaatttttg tcatcatctt tttttggagt agagtgcata tgggcagggt catttgcgga 300  
 tgaagaagat gttgctggtt gaggttcttg aactgcttt cccaacctta atgtaattggc 360  
 actcacattt ttgggattct ggacagattg agaaagaatc tgtcagaatt ctgcgactgt 420  
 tgttgattaa ct 432

<210> 8605  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 8605

agctttctg tgggacatct tgacttgctt cncattcttg acattcacca cagattctgc 60  
cttcttctat tttcagattg ggaatgcctc taacagcacc tttgtcaatg attttcttca 120  
tgcctcttaa gtgcagatgt ccaaactctt gatgccatat tttgacttca tcttcttttg 180  
agaatagaca tgtggaggag tgactggatt cttgaggtgt ccataggtaa cagttgtcct 240  
ttgatctgct gcccttcatt agaacttcac tcttctcatt tgtcaccagg cattctgact 300  
ttgtgaagtt tacattgaat ccttcacac acaactgact gatgctgac aagttcgag 360  
tcagtccctt caccagcagt act 383

<210> 8606  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8606

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agnggccaaag gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagttaa 120  
gatgtccaga ttgcaactat tggccacaaa attcgaaaat ctgaagatga acgaggaaga 180  
atgtattcat gacttcaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240  
agagaggatg acagatgaaa agctggtgag aaagatcctc agatccttgc ctaagagatt 300  
tgacatgaaa gtactacaa tagaggaggc ccaagacatt tgcaacttga gagtggatga 360  
actcattggt tccttcaaac ctttgagct 389

<210> 8607  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8607

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ccttccacc aagcataaag accctgggag tgtaaccatt ccttggttcaa ttggagaagt 180

cattgtgcga aaggctctta ttgacctgng agccaatatt aacttaatgc caatctccat 240  
 gtgcagaagg ttgggagagt tggagatcat gccactagg atgactntac agcttggtga 300  
 ccgctccatt accagaccat atggagtaat tgaagatatg ttggtcaaag taaaacattt 360  
 tatcttcccc gaaaactttg tggtaatggc tatctgtgaa gatataacat tcatgtaatt 420  
 ttgggaagac ccattcatgt aactgcaagc tgcatagtgg atatggggag aaagaagctg 480  
 gaactgggct ttg 493

<210> 8608  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 8608

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 ggcaatagac ttaaacattt ggtaagccat agaagttgga ccttatgtac ccaccatggt 180  
 ggctggtaat acaacaatag agaaacctag agaagagtgg tctgaagaag aaagaagatt 240  
 agtgcagtac aatttaaagg ctaaaaacat cattacttct gccctaggaa tggatgaata 300  
 ttttagggtg tcaaattgta agagtgtctaa agatatgtgg gacactctac aagttacaca 360  
 tgaggaaca actgatgtca aaagatctag gataaatact ctaactcatg agtatgaata 420  
 ttt 423

<210> 8609  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8609

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 tacttgacaa attataattt tgtttattat tatctaagat ataccattta ccgaatttca 120  
 attttaaatg ggtgactaca agttgtataa aattcaccat ttccatcatc aaagatttca 180  
 ttttaaatct tgagtaatct ttatgaatat aaaattatgt tttattactt atttacttca 240

ctttctagct tcaaagtatc tatcagaaaa ataatcaagc cataaacaaa taaacgaatc 300  
aagcccaagc ttcatatatt ttaaccaact caagttgaag ttttaaattt gttcagttta 360  
aataaacgag tgaagcttga gtaacccatt ttcttcacaa ggcaaacct aacttttagct 420  
cagctaaact tgtttacacc agtgaatgcg ggtggagaaa aatcatg 467

<210> 8610  
<211> 590  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8610

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cttcttttgc ccaccatctt ttgcctccaa agtgatggtg tacaaggtag cagaaaccac 120  
ttgctgtttt gcacttacta ccttttcaaa ctccaaaagg gcattctgca taaccattaa 180  
caattcaata aaaataaaat agaagtcata tttaaattcc cttaccacaa aatgaaaaga 240  
taatagaaac ccactagtgt ttctataact acaaagaata aaaaattaac ttcattattg 300  
aaattggcgc caccaacctt tttattcctt gacataatga acatgcaa atgtcgcaac 360  
aatcaattga ttttttttgg ctaacaaaan attatgggga ggagggaatg gccagtaga 420  
caacagaaaa aagcctctag gctcaaagaa catntataca naaacttaca tataccccac 480  
tccanataaa caaatgangg ttcaaacctg cnatctata gatgcaagat tntgtcttac 540  
tctactcaat gaatcctttg atgttcaca atcaatatat tagtgcttaa 590

<210> 8611  
<211> 353  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8611

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gcacaaccaa aaaatacagn cttcccatga ctattcatal ccacaaaaat cccaaatggc 120  
atttcataag aattgacctt gtatggagta tcaaatacaa caacatcacc atatttttgg 180  
taccaatcag agcaggaagt atgagaccaa aaaatatgct ctaaccttct ctcttcataa 240

gtgtatatgc atcctgaaat ttagagccac ttttttttgc atccttacag accttgaaaa 300  
gaacttttgca tcattttttt caactttttt ttttggttcc acaaaaagat tac 353

<210> 8612  
<211> 484  
<212> DNA  
<213> Glycine max

<400> 8612

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gaagagagtc tctaagaact cacgccaagg gaagcaagaa tttgtggcag aagtgacaac 120  
aattggaagc cttcaccata ggaatttggg gaaactcaca ggttgggtgct atgagaaaag 180  
agagcttctc cttgtgtatg agttcatgcc taagggaagc ctagacaagt acctctttgg 240  
tgacaaaact tttggtaaca acacccttga agaggggtgt tcttcaacac tgacttggga 300  
aacaaggcac agtgtgattc atggcgtggc tcaagcatta gactatctcc acaatgggtg 360  
tgagaagagg gttcttcaca gagacatcaa ggccagcaac ataatgttgg actcagacta 420  
caatgccaag ttgggagact ttgggatgtg cagaaccatt cagcagagaa atgaaacaca 480  
ccac 484

<210> 8613  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8613

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tcaagggtcg tctattcaat acctgatcat agcttcaagt ctagaaacat taacaagggt 120  
ttatgtgaaa tctatgtctt tctgggtggg aaaagccttg agctactaac atagctttgn 180  
tccttactac cttatcttgt tcatccaatt tatntctaaa tgcccatctt gttcccaaga 240  
tgctnttggt ctcaggcttg ggaacaagca tcttgacatc atttccagtg aactagtgga 300  
gttcttcttc cattgcaata atccaaatat tatatgtgat tatttcattt atcatcttaa 360  
ggctctatttc aaacatgaaa gcataagaca taagatctta aaatgatgat ctggntttga 420  
ctccttcagt ctgatcttaa taatct 446

<210> 8614  
 <211> 603  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8614

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gactaatatt ttacgatgta taagaataag gcttactgta ttatatatat tccaagtaaa 120
caaacaagta aaataacaca catgtcattg caatgttcgt gatgataaag gttttctttt 180
taaattttgt tctgatttta atttctatta gatattcaag tgtgttacta ggatatgttg 240
gcgtttggtg ccaaactgtg cactttctct ctctctcgtc atatttcttt taaattctaa 300
aatttagtaa tttcacttaa attttcatgg atttgagaaa ttaatttttg cctctagtag 360
tttaaaaaga attaagaaaa gatttcactc actttttcaa caaaaattgg caaatagttt 420
gacttccaaa aaggaaagaa agtgtaaaaa attaaaacat tagactttaa acttggtcca 480
tacacattgg ttgggctaaa acaaagtttc aaatagaacc ttttccctga caaacaagt 540
ggaccctttt tttactaat aaaaatttaa taaaattttt catattttat taaaattat 600
ttt 603

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<210> 8615  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8615

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gctagggcca tgtactctgc ttcagttggt gctctatcaa aaactgattg ttgatttggt 120
ttccaattga ttgctgtacc aaacaaagta aacacatata ctgttaaaga tttccttggt 180
tttacatttc ctgcaaaatc tgcacttaca tagcctgtga ttgctgctc atgtgttgct 240
ttcttgtagc ttaatccaac tttcaaagat ccatttagat accttagtgt ccacttcaca 300
gttccttagt gtgcactgcc aggatctccc atgaatctgc ttataatact tacaacatga 360
gccaagtcag gtctgtgca aaccattcca tacattatgc ttccaacacc actggcatat 420

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nggtgttgat ccattttaga cttttcttca gcttgttttt gtgcttgaat aacagatagt 480  
 tttgtatgat gaccaagtgg tgtgcta 507

<210> 8616  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8616

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 tacttgtag gccactcttt catcatattg acggatcaca agagtttgaa ggagctaattg 120  
 aattaggctg ttcanactcc agaacagcat aaatatctcg cacgattact gngttttgat 180  
 tatgtaatcc agtatcgagc aggaagagc aatatcgttg cagacgcatt gtcccggta 240  
 acacctgcct cattattcat tatctcagtc cctcacttcg tcttcctcga cgagctgcga 300  
 agggagttgc aggcaaatcc agcgttcattg 330

<210> 8617  
 <211> 593  
 <212> DNA  
 <213> Glycine max

<400> 8617  
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 gcaatgcttc atctatgttt ctaggttcaa tttgaggaac aaattccatg ttattgcata 180  
 aaattctaag tctagatcaa gtggatactc tcttagatat ttcacctatg atgttgtcca 240  
 aggggaggtc tcattgagtt cctcattcct ttgggaggtc tttatgaggt gtggttgtga 300  
 tttccttatt ttgttcaaga tcttaacct tggtttcate ttcaagtgca atgttcttat 360  
 cctgaagacc tatatcttca tcttccaaag cattttcttt gaatagagag ttatgttcat 420  
 cacacacaac atgtatagat tcttcacac ataatgttct tctattaaac gctctatata 480  
 ccacctgcc ttccaatgaa taaccaagac aaaatgcctc atcagctttt gatcaaaatt 540  
 tcttagagat tcttttccat tgtttaaaac aaagcattta cattccaaa gcc 593

<210> 8618  
 <211> 551  
 <212> DNA  
 <213> Glycine max

<400> 8618

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 aaatgtgaca acacaagtgc tattaatcta acgaagaacc caattatgca ttctagaacc 180  
 aagcacacag aaattaggca tcatttccta agagatcatg tgtctaaagg tgactgttgc 240  
 attgagttca ttgatagtga acatcaatta gtagacatca ttgatagtga actaggcata 300  
 ttcgatgcat ctagcataga atgacatctt atttgcataa gggatatgtt cactttgtca 360  
 ttcatatcat tagtctttgt ttggtatgtg ttttagctta gtgattcatg tgcattctta 420  
 gtttggttga atatcacatg ttttcttag tcattttgta atttcttgct ggtataattg 480  
 attacctggc catttcaatc gaatactata tgatttctgg ttggtaagtt gttcaaaaact 540  
 ttttgtttta a 551

<210> 8619  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 8619

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 accacttcaa ctcatcttca aacacagccc agttaaaatg cttcacaacg aagttaacaa 120  
 agtcctcatt gtcaatgttc attctactga tgcagtgtcc aattgggaaa tcattctgtg 180  
 tttgtataac ttttaccgag gtgtagcat agctgccaga gtccagtcca gagaatttca 240  
 ggataacatc acgtttacga atctgcagtg cagcaagtac gtataaatta aaatatatat 300  
 aaaaataatg caaatcatct catattctat caatgaaaaa tggatcatgt aatattaaga 360  
 ataggcacag aagtcttgaa catacttaac ttcatgcaac attatttact ggcatgaaaa 420  
 atttgttttg tcacaaaaaa aaatatgcct tt 452

<210> 8620

<211> 404  
 <212> DNA  
 <213> Glycine max

<400> 8620

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 atatatcgag acgctccaaa ttgaaaacgg aaactcttaa aaaattcaaa cgacaataac 120  
 tttttactcg gatgcccgac aaagtgtcgt catttatcga gggatgctcc aaattgaaaa 180  
 cggaagctcg tatcaaattc aaatgacaat aactttttac tcggatgtct gattgagtcc 240  
 cgtaatatat cgagacgctc aaaatttaga tccgaagttc tgagaaaatt gaattgacaa 300  
 taactttata cacggatgtc aagggtggagt ctgtaatata tcgagacgat gcaaatttga 360  
 aaacggaagc tcggaagaaa attcaaaaga aaataacttt ttac 404

<210> 8621  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 8621

agcttcatgc ttaactatgt atggcaaatt ttcattacta ttgggtcaaga catacaagtg 60  
 agcttgtaac aaatcttcta tacttggagt gatcacctgc agtcctcttg aacccttacc 120  
 acccactctg tcatcatgcc gaaactcagg aagcccaaca ggtttagcct tctctaagta 180  
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttctgg 240  
 acgatataga ttctttgtat acccttttaa gatcttcatg tattgctcaa ccgggtacat 300  
 ccaccgtaga taaacagaac cacaacattt gatttctctg accagatgca caatcaagtg 360  
 aatcatgatg tcaaaaaaat aggg 384

<210> 8622  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 8622

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 actatggcat catttctggc gctaaaactgc tgagagttgg aattcatctt ctcaattaaa 120

tttctagctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctctgaaatc 240  
 tgatggtgag ggcaactggc gcataatfff ttaaatecgt cccagtactc atacaggctc 300  
 tctccactga gttgtctaata acctgaaaaa tccttcatga tggctgggggt cctggaagca 360  
 gggaaaaaatt ttttctaaaa atac 384

<210> 8623  
 <211> 521  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8623

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 ctggtactct tagacataaa tatgagttgt gagttttctg ttatttatat ttttaactac 120  
 ttcaatgatt aatttatcag acactntata attaataata gttgttcaat tattagcttc 180  
 angacttcag ttactaatta gttgtatcga acatantcct aaatgctaata attgtctgta 240  
 ctaggaatgc tagcaacatt tctttaacna tatctgtgta attgatggan nantntaaat 300  
 taagaaagaa tcataaatga ggagaatgac ccatcaaaat agatatttct ctataatata 360  
 tntaatcaat acgaacaaga gaagtttgan agatgaaaag agtcataatc caatataata 420  
 cttattttaa gtacatatat ctcatctact aataatgtga tgttaattta attcttaaata 480  
 aatgtcatcc tatatatata aatgggtacta gtatacat g 521

<210> 8624  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8624

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 ttcagaggcc acttctacca caggtagtag gaaattatct caaagggtgt ctataatttt 180  
 gtccttcaac ttttttcaaa agaattggct tctccttgga tttaaatcaa acattttttg 240

cctttattcc taaatttcca taagaggata gaatagagaa cttcagaccc actgctctgg 300  
 gtaatttcca atttaagatt atctctaaaa tcgtcacaag tagattggcc tanattactc 360  
 ctaagctgat ttttaata 377

<210> 8625  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <400> 8625

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 gtgaacgtac gtccataccg gtacctcat tttcagaagg ctaaaatcga aaaaaaattg 120  
 cagaattgct ctccgcgggc ttcatacggc caagcacgag tccatactcg tctctgggtc 180  
 ttttggtgaa gaagaaggat ggaacctggc acctatgtgt cgattacagg tccctcaacg 240  
 ccgttacagt ctgagatagg ttcccgatac ccactatcga caaactattg gaccagctgg 300  
 gtcacgcttc ttggttcact aaactcaa 328

<210> 8626  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <400> 8626

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 aagctcacca ccataggaag ccatagataa gagcttgaag gttgcagaag atgaattgat 180  
 ggagagggag acaaggagca tgaaattttg tgccctcaaaa gaggtttgaa ctttgagggt 240  
 taattctcaa atgatcaaag ttgaaaaaat gcacacacat gacctctatt tatagcgtaa 300  
 gtgtcaaaca aaattagagg ggaatttgaa tttctattca aatttcactt gaatttgaaa 360  
 ttgaatttgt ggagccaaaa tttcactaat tatgattagt ggaatttagc tatggttcaa 420  
 ccactaatc caagatcaag tccaagaatc ttcactaagt gtgcttaagt gttatgaagc 480  
 atgtaaaaca tga 493

<210> 8627

<211> 308  
 <212> DNA  
 <213> Glycine max

<400> 8627

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 ttatgaccat ttgaatttct caagagcttc cgttggttcaa ttccgagcct ctcgacatat 180  
 tatgcgcctg aatcggacat ccgtgtgaaa aggtatggcc atttgaattt gtcaagagct 240  
 tccgatgttt aatggcgagc gtatcaatat attataaccc tgaatcggat atccgtggga 300  
 aaagcttt 308

<210> 8628  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8628

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 ctgtagatca ccatacagat ctatgtcctt ctntgcagca acctggagtc aatgagtaac 120  
 ctgaagctta tgctgcanac atttataata gacctnctta gcagcaaaac caatagcagc 180  
 agaataatta tgacctttca agagacagat acaatccatg ttggaggaat catccaaatc 240  
 cgagatggac angttctcca caacaacaac a 271

<210> 8629  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8629

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 tcgtcaagcc gggggaactc gtcgattatg gtggagagct tgcgtgaaa attctgctga 120  
 gtatacttca ctttgcgcac gtagaattgg cgcagccgtg aaatcgcata tcctttgtgc 180  
 acaacggttg gtgtctgacg ctgggtgcga gagaggataa tgtcgaccac atgcttccca 240

tttggcacca cggtaatctt cttaaaattg tactgaacca tcgtgctcta tcaaccttgt 300  
 tgccacagaa aattaagaaa aagggaactat aagagtaaaa catgataaag tccgcggagc 360  
 tacataattt gagatcccaa ttgaaagctg agagaaaata aaaagcgatt atgtgaatg 419

<210> 8630  
 <211> 657  
 <212> DNA  
 <213> Glycine max  
 <400> 8630

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 tttaaaacca ttctaaacaa ctaaaactaa aaatataaaa taatcatttt ttaattgttc 180  
 ttttaattaaa ttttcagttt ctatatatta ttaaatacaga atccagccac actaaaccaa 240  
 acccttatta tatttgtaat attgatttgt aatacttatg tagtagtagt gttttaaact 300  
 ttttataata gtagcttata tgtaatttta tgtgttgaac gtttaagtta tattaaagaa 360  
 aaaatgattt atttgggttt tatcttattt ttttttgggt tatcttcatt ctttatctat 420  
 taaaaagctt aaattaatta tttattctat ttttatatta agtttagtcc tttaccttta 480  
 aaaaatttat tttggctaata taatttgtgt ttctttcaaa tttttcgcta tttccctcta 540  
 cttcaatttt aacaattttt ttaatgatta acaatatcaa tcttaaatca gccacccaaa 600  
 tatccaaatt ctacccaaaa ttatttaaata ctaagaacct taaggggttg cttttgt 657

<210> 8631  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <400> 8631

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 ttttccttct atgcaacaat ctaaagccat tgaacaacct gaagcttatg ctgcgaacat 180  
 ctacaacaga ccttctcaac ctacagcagca aaatcagcca caacaaaata attatgacct 240  
 ctccagcaac atgtacaatc ccggatggag gaatcatccc aaccttagat ggtcgaatcc 300

ttcacaacag caggcaacaa caacaacaac cttatTTTTca aaatgctgct ggcccaacaa 360  
accatacggt ccttcaccaa tccaacagca acagccccag aaacaacaaa caatt 415

<210> 8632  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 8632

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tgtaaaagaa ctttggattt agataataac ccgctgcatg caaaggggtg tgaagttggc 120  
aatcccatct tttatcaatg attgcaagga tatccttata cttcccttca ttgttattga 180  
aagctctttg aattgcttct ttggccctat ccattgcttc ataaatgaaa ccattgcag 240  
gttttttttt cattatccac caaccttaac acacttacia gaggcccat ttgat 295

<210> 8633  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 8633

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ccgacattgt atgcagacta gaaaaaattt gcgccgaaga aggtcttgaa tttgaacagg 120  
atgctttgga cttcattgct gcgaaatcct gtggttctgt tagggatgca gaaatgatgc 180  
ttgatcagat gagcttgctt ggaaaaaaga tcaatatttc tttagcttat gagctggtaa 240  
gactagtgtc tttgtaccat acatgtatat actccaaact acag 284

<210> 8634  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 8634

tactaaccca tggaagctcc taatatctcc tatactatca gggggggggc attcttggat 60  
gaccttgatt ttttaagggt ccacttgac cccatttcta ccaactacia atcctaagaa 120  
aactatatta tctacacaaa aaggtacaac ttctctatat tggcataaag agtggttttc 180



ctaagaactg aaagaacttg ccttagatgt cctaagtggc catctaggct cctactatac 240  
actaaaatat catcaaaata aacaactaca aatttaccta tgaaatccct taaga 295

<210> 8635  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 8635

gcgagctgat tgtcgttcga atttgccttt agcatttgtc ttcaaattcg agcgtctcga 60  
catattacgg gactcaatca gacatccgag taaaaaagtg attgtcgttt gaatttgctc 120  
atagcttcaa cattcaattt tgagccgttt tgatatatta cgatactcaa tccgacatcc 180  
gagtaaaaag ttattggcgt ttgaatttgc ttaaagcttc ggcatccaag tccgaccctc 240  
tcgatatact acgggactca atcagacatc cgagtaaaaa gttatt 286

<210> 8636  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 8636

agctttgagc tttattcata tgacaataac tttttaactg gatgtctaatt tcagtcccgt 60  
aatatatcga gacgcttcaa attgattatc gaagctctga ggaaattcga acgacaataa 120  
ctgtttactc ggatgtctga ttgagtcccg taatatataa aaaggcttgg aattgaatac 180  
cgaagctctg agcaaattta aacgataata actttatact cagatgtctg attcagtccc 240  
gcaatatatc gagatgctcg gaaatgaatg ccgaagctct gagc 284

<210> 8637  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 8637

agcttttggg ttgatcatta agtgctttat gaatcctccc gtgcttatgc caccagtgcc 60  
tggaaggcct ctcatcttctg acatgacaat cttggacgag tcaatggggg gtatgctggg 120  
gcaacatgac gaatccggga agaaatagcg cgttgtttac tacctaagta agaagttcac 180

gacctgtgag atgattactc cttgctcgaa agaacgtggt gtgctttagt atgggcatcc 240  
catcgccataa ggcagtagat gctgagccat actacctggt tgat 284

<210> 8638  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 8638

agcttgaagg ttaactatat gccttggtta acttggtaac ccagctggcc ttgaatcata 60  
aatctgtact tgttgcaaga gtctatggtt tattctcctc tgctgaccac catacaatcc 120  
tttgcccttc tatgcagcaa cctggagcaa ttgagcagcc taaagcttat gttgcaaaca 180  
tttacaatag acctcctcaa cctcagcaga aaatcaacca caacagaaca attatgacct 240  
ctccagcaac atatacaatc ccggatggag gaatcatcct aatc 284

<210> 8639  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 8639

agcttgacac attcctttta taatgtaaca acacaagtgc tatcaatttg tctaaaaacc 60  
atgtcatgca ttctaaaaacc aaacatatag agataagaca tcattttctt agagatcata 120  
tatcaaaggg tgattgttgc attgagtta ttggtagtga acatcaacta gctgacatct 180  
ttactaaacc tctagccaaa gataggttct tcttcattag gaatgaactg ggtatcttag 240  
atggatctag tattgaatga tgttatgctt agaacatgta gctt 284

<210> 8640  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 8640

agcttgcata ataagaatth tcttggtata gccataatct ggacagcatt atagccaagc 60  
cttttaattc gaggcaatac atcatctcta aaattgacat atgtgttgat ttttggctcc 120  
tgcaccacat gggttcacaaa attgttaata gtagaagtag aaaaagaact gatactatac 180

ataggaactt tcttgaacat catagattta atctctaata ctaaacaaaa tattctatta 240  
 ttcaaattca attaacattg actgtacaaa tgagaccaat gccttca 287

<210> 8641  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 8641

ctatccaata ctcaagcttg aaggcaaact ggatgcattg gttatTTTTgg ttaccagtt 60  
 tgccttgaat cacaaatctg tacctgtcgc aagggtttgt ggtttgtgct cctctgctga 120  
 ccaccataca cacctttgcc cttccatgca gcaacctgga acgattgagc agcctgaatc 180  
 ttatgctgca aatatttaca atataccttc tcaaccttaa catataaatc taccacagca 240  
 taacaattat gacctttcca tcgacagata caacctgga tggaggaatc accctaacct 300  
 cagatgggac atccctg 317

<210> 8642  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 8642

tgtagggtta aagtctcacg attgtcattt gctcatgcaa caattgttag ccgtggctat 60  
 acgagacatc ttgctaaaca aagtcaagtt agccataact cgctgtgct ttttcttcca 120  
 tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagttggaaa atgaggctgt 180  
 tggatcgaat ggcctcagaa taattaagaa gggggggtga attaattatt cctaaaccat 240  
 tactaattaa aaattttctct tctaaggatt ttactaaatt gttaagagaa tgaggggtag 300

<210> 8643  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 8643

agcttctcat gctcaacctc attagtttta ttggttaaatt caacactctt ttgctcctct 60  
 tcaatggaag caacctcaa aggggcactc actttcagcc cccaattcct ctccctgagg 120

ttgcacctca aaggttgaaa cttatgacct gccactacct tgtttgtgtc caaaaattca 180  
 acccttgacg tgctggacaa agcaccacca attctatgtc taggaattac tggaacaaga 240  
 ggcttcaaac cacattctga taatatccaa gttgccattg gact 284

<210> 8644  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 8644

agctttaagc aaattcattt gacatttact tttgactcgg atgtccgatt gagtcattta 60  
 ataattcttg acgctagaaa ttgaatacag aagctctcac caaattttaa tgacaataac 120  
 tttttactca gaagtctgat tgtgtcccgat aatatatcta gatgctcaaa attgaaaaca 180  
 gaagctctga gcaaattcaa acgacaatag cttttgactc ggatatccga ttgagtcatt 240  
 taataattcg agacgctcaa aattgaatac agaagctcta agcaaattc 289

<210> 8645  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 8645

tctcgatata ttatgcgcct ttttcggact tccgtgtgac aagtcatgac catctgaatt 60  
 tcttgacacc atccgttggt taatttcgag cgtctcgata tgttatgcgc ctgaatcgga 120  
 aggccgtgtg acaagttatg accattttga ggatctcgag agcttccggt gatcaattcc 180  
 cagcttctcg atatattatg cgctgaatc agacttgcgt gtgacaagtt atgacctttg 240  
 gaaattctcg agag 254

<210> 8646  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 8646

agcttctcga tttattatgt gcctatttgg gactttcggt tgaaaagtta tgaccatttg 60  
 aatttgtcca gagctttggg tgtccaattt cgagcgtctc ggtatattat gcacctgaat 120

cggacatccg tgtgacaagt tatgaccatt ggaatttctc gagagcattc gttgttcaat 180  
 ttggagcttc tcgatctatt atgcgtctga atcggacttt cgtgtgacaa gttatgaaca 240  
 tttgaatttc tcgagaccat acgttgttca atttcgagcg tc 282

<210> 8647  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8647

agcttgtggg atnnngttta gtgtttttgc cggagatggt gatgatagaa aaagtactac 60  
 cggatttgta ttttttatgg gtgatttgtt ttttacatgg agttctaaga agcaaggcat 120  
 tgtgacactt tctacttgtg aagccgagta tgtagctgca acttcttgca catgtcatgc 180  
 catttggtta agaagattgt tggaggaact tcagttgttg caaaaggaaa gcacaaagat 240  
 ctatgttgat aatagatctg cacaagagct tgccaagaat ccggtggt 288

<210> 8648  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <400> 8648

agcttctaaa ctttgtacaa gaatgtatct ctgataccac ttgttagaca agtggcctca 60  
 gatattctaa gaacgggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120  
 tctatttcac tttttactca agttatgaat tcccttaatg acaatcttct taaatattaa 180  
 ttcaaatgaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240  
 agagaaaatg caaactcagt tttatactgg tttggccaca cccttgtgcc t 291

<210> 8649  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <400> 8649

tggatttcct tttaggaggg tatctattct tcctaagaag gagccaaacc cagtcaccct 60  
 cattaagaac tagctctttt ctccctctat tacctttagt tgaatacacc tttgtttggt 120

tctctatttg gttcttaacc ctctcatgca acttctttac aaactctgac ctagattccc 180  
 cttctttatg tataaaagaa gtgtcccggtg ggaaggtaat gaggtctaac ggtgttaggg 240  
 gattgaaccc atagacaacc tcaaacgggg actacttggt ggttctatga actcc 295

<210> 8650  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 8650

ttatacaagt tttctacaat cacaatttcc aaatgcaatg cagttcacag aatgtgtttc 60  
 ttccccattt agtaatatgt caagtgaat cattcacaat gaaatgaatc attttcagtt 120  
 tattctaata tatctggaaa tgcaatgttg aacatacaga ctttatagat gctaattggat 180  
 gttgacatgt gtttatttca atttcaaagt tcccagataa gttcaaacta tacagcctca 240  
 agctaacc aaataaaaa aattgcttac cagttgtacg accacttgca tac 293

<210> 8651  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 8651

tccattttca attacaagcg tctagattta ttattggaca caatcggaca tccgagtaaa 60  
 tagttattgg cattagaatt tactacgagc ttctgttttc aataacgagc gtctcgatat 120  
 actacgagac acaatcggac atccaagtaa aaagttattc ctgtttgaat ttgctacaag 180  
 cttccatttt caatttcaag cgtctagata tattacggga cacaatcgga catccgagta 240  
 aaaagttatt gacgataaaa ttttctaaga gcttatgtat tcaatctcga gcgccacgat 300  
 a 301

<210> 8652  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 8652

ttgagcaaat ttaaacgaca attacttttt actcggatgt atgattgagt cccgtaatat 60

atcgagacgc tcgacagtga attttgaaga tctgagcaaa ttcaaacgat aataacgttt 120  
tactcggatg tctgattgag gcccgtaata tatcgagacg ctcgaaattg aatgttgaag 180  
ctctgagcaa attcaaacga caataacttt ttaccggat gtctgactga gtcctgtaat 240  
ataacgagac gctcaaagtt gaatgttgaa gctc 274

<210> 8653  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 8653

agcttcaaca ttttaacttct agcgtctcgt tatattatat gactcaatta gacatccgag 60  
taaaaagtta ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcgtctcg 120  
atatatgacg ggactcaatc aggcatccga gtaaaaagtt attgtcgttt gaattggctc 180  
aaagcttcaa cattcaatgt cgagcgtctc gatatgttac gggactcaat cacacatccg 240  
agtaaaaagt tattgtcgtt tgaattggct cagagcttca acat 284

<210> 8654  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 8654

ttgggaagaa gcagcaacag ggctactttg aagatggtgg tcttccaaaa gatgtgccaa 60  
aagggcactt tgcagtgtat gttggtgaaa acaggacaag atacattgtc ccaatttcat 120  
ggttggtcga tacacaattt cgaagcttgc tccaaagagc tgaggaggag tttggcttca 180  
atcatgacat gggccttaca atcccatgtg atgaagttgt ttttgagttt cttacctcaa 240  
tgattagatg agaattaagg gaaagttgat agaagtacac ttattggcat ttg 294

<210> 8655  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 8655

agcttgcattg atttacattc tcccccttcc tcaagcttat tcttatattt tcttgacatc 60

atcaaaatct tcatcatcaa taatcttaag aaggataggc ttaaaataca gaagaagcca 120  
caacaatcaa ttttaacaatg ttcttttaaac atgcaagaca caattgattg caaaaaatta 180  
aataagataa gggaagagaa gaatgcaaca cagttttata ctggttcggc cacatcccgt 240  
gcctacgtcc agtactcaag caaccactt gagatttcca ctatctttgt aaaatccatt 300  
acaaagtctg aaccacacag ggac 324

<210> 8656  
<211> 497  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8656

tgggtacaat tctctcatcc tatcctccaa ctcccatgta taatcacct catcggttcc 60  
ccaccgcacc ttcaccaacg cgatctcctt tcctctcaac gacttcattc ttcggtcagt 120  
gatcttctga ggttgtgctt tataagttag gttatccttc acctgtacct cgtcctctgc 180  
aagaatatgt gatggatccg ggttgtaccg tctcagttga gagacatgga acacaggggtg 240  
caaattcgat aaactcggag gtaaggcgat atgataagct acaggcccaa tcttcttcaa 300  
aatctgatat agacctagat acttgggtgt caacttccta gccttgagag ctcttccgac 360  
cccggttatg ggagaaacct tcaaaaacac atgctccctt tcctggaaat ctagtggctt 420  
cctccttcta tcataatagc tcttctgcct atcctgagat gnccttatct tctctcgaat 480  
caacttcact tgttcgt 497

<210> 8657  
<211> 324  
<212> DNA  
<213> Glycine max  
<400> 8657

agctttcaca tggatgtccg attcggggac ataatatatc gagattctcg aaatcgaaca 60  
acggaagctc tcgataaatt cgaatgggca taacatttca ctcgatgtc cgattcgggg 120  
acataatata tcgagacact cgaaattgaa caacggaagc tctcatgata ttcgaatgct 180  
cataacattt cacacggatg tccgattcgg ggacataact catctagacg ctcgaaattg 240



aacaacggaa gctctcgaga aattcgaatg gtcataagat ttcacacgaa tggtcgattc 300  
 ggggacataa tatatcgata cgct 324

<210> 8658  
 <211> 352  
 <212> DNA  
 <213> Glycine max  
 <400> 8658

tatagtcatt acttggttaag aaccataatc tagagtctat tggtcctttg ataaagtgaa 60  
 gaatttgttt tgcagccttg aaatgagtag tggtagagat ctcgatgtat tggctgatga 120  
 gtactccagt agcatatata atgtttggtc ttgtgtgtca aatatcataa actaccacc 180  
 aaactcttga aatctatagc atccagtttt ctgtcttcgt cgaactttga taacttcatt 240  
 ttgcactcca tcagtgttcc aattggcttg catctatcca tcttgaattt attaagcatc 300  
 ttctttgcgt agctttgcag tgaaatgaag atttcatctt ctttctgctt ta 352

<210> 8659  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8659

tcagatttgt gtttaagtag aaataaccat gngaattctg agcagtcatc taccaatgta 60  
 aggggaagatc tctgcccctc atatgtaggg tgggcatagg gaccccatat atcacattag 120  
 agtaaatcaa aaggtaaata agataaattg ttagagttag gaaaggataa tcttctaagt 180  
 ttagcaagtg gaaaaataga acaattagaa gaaaagaaat taggagagaa ttgtaaacta 240  
 attttattat tcaaattgatt gaaaactttg tcttatatat gaccaaacct agaatgcaa 300  
 atatgagcat ttttaciaag agtggaattt acgtgtgaat tcataacaga aaaagtaaat 360  
 ttgcaatcat gagtgtcctt gaggtctagg acataaacgc cttagatgag atacccttta 420  
 ccaatcctct tgcaagcttg cttctcttga atatcaaatt cattttggga aaaaatggac 480

<210> 8660  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<400> 8660

tctaatactgg atttcttgga ttttgagaag tatctttttc aattaagatt gtcaaataat 60  
agacagaaaa ggttggtgta tcaactgaat ataaagaagt cagttaaaat gaaaaaggtt 120  
gttcagtaga atatgaaact aactgcgcca taattcttaa ataataataat attgagactt 180  
gagagaattc ccagtgtgga gaacgtataa tggcttaata taaataaggt taagatgata 240  
acccaaattt tgagaagtat gccagtgggt catcacgagc aggaccagca taaacaagtg 300  
aaccctctgt tagcaagatg atgtcatcaa atttactata cactgaacct ctgggctgat 360  
gtatcgaaca aattacagta tgaccatctt gtgcaagttg tttgagagtt tccatgactt 420  
tctcagcctg gaaggcatca agttcttgga aacacagaaa acaactttca tgacaaaaat 480  
atgt 484

<210> 8661

<211> 178

<212> DNA

<213> Glycine max

<400> 8661

agcttagaag gaacctatcc aggtttgtaa cggctttttt tgcagtgaga gcagagaatc 60  
catagtgagc attgactttc agtatccatt ccaactgcctc acgacgaagc tgagaaagac 120  
aagagtccaa aagcgcatta ttgttattat tattgctatc attgctatta tcatcact 178

<210> 8662

<211> 401

<212> DNA

<213> Glycine max

<400> 8662

ctaagcttat ggaacaagtg agaggtggga gagcaaaatt tgactcctaa agatttgttt 60  
tcactgcagg tgcaactgca gccaacgaac tcttaacctt catcctcgct aaccaggag 120  
atgctttact cgttccaacc cttactatc ctgggtaagt aattaacaac aagctctttc 180  
atttaattag aaatactaac tgacaatttc aatattgatt ggaatttatc ggaaatcacc 240  
atTTTTTTTa gattctggtg ctctcatct aataattctc acttcttata tatattaaat 300  
gagaaatgaa atctattaga attgattttt aataaatcat aaaaagtgtg agagagaaag 360

tgatcatcttc atttacttta tagtaaaaaat aaaatgacat t

401

<210> 8663

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8663

agcttgcatc cgggtgcttgt tgtcagggtg aagnttttcta tccttttttat cctgcncnna 60

ncttganttc ccatttgcac cgtaccaaag tcaccgcttt ggtaggatga gaagaaactt 120

ccatgtgcag taacatggaa ggaggcacca gaattgacaa tccaagaact atcatcacia 180

gcaatgttta ggatattacc ttcaccaacg agacataaca aatcttcttt tgaaactatg 240

acaggaggat tcttctcttc ttgcttcttt gatgggttga cttgggtctgg cttaacgtta 300

ctggcctttt gatctctctt g 321

<210> 8664

<211> 517

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8664

ttgactcttt ctttgtagag ttttgaagat tcataagttg tcagtttttag ttcttccaac 60

tccaacagtt gaatattcct gtgttccttg gatgccttct catcaaaatt cagaaatttt 120

aaagcccaat atgctttgtg ttccatttca actggtaaatt gacatgattt tccatacacc 180

agttgaaaag gagataagcc aattgggggtc ttgtatgaag ttctgtaagc ccacagtgca 240

tcttccaatt tgggtgacca atcttttcta gttgacgcca ctgttttctc taatatcttc 300

tttaattntc tattggacac tttggcttgc ccattagttt gaggggtgata ggggggatgcc 360

accttatgat tcacatgata ttgactcaac accttttgaa gctgagcatt acaaaaatgt 420

gaaccaccgt cactgatcaa gatccgaggc accccanatt gagcaaaaat attcttcttt 480

ataaaaatta ccacagtctt agcatcattt cttggag 517

<210> 8665

<211> 662

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8665

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 nngatttata ttaaaataat taacgatatc tttattttga tatcatatat tttttcctta 120  
 taatgatttt aaaataaaat aatagaggag tgtatactat atatatatat aacataacaa 180  
 ctttagggat gtgttgatga ttgagggtcg tcggaaaacc atgaatacta ataatgacgt 240  
 gttgtctctg aatctaagca tcatgaatca ttaatcccca ccgtcccggc cccgagggct 300  
 gaattggatc cacataacac attcatttcc caccgtccga aaagtgtgag acgattccct 360  
 gaaataatga taaattaatc ttataaataa tttgataaat tagtatggta gataatttag 420  
 ttattgaata taaaaaaaat atgataaatt agtctttag ataatattag aataaattgg 480  
 tcactaaata ttacaaatta ataacaaatt gatcataaaa aatataatat attatctaatt 540  
 tgatcattaa atattacttt tctctgatct caaatttaag attaaaaaat tgacacacta 600  
 gaaagtagtt tatcatgtta attggcttaa atttagttaa aaatattttt gtctcaacta 660  
 ct 662

<210> 8666  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8666

tgacaagaaa gcagaacctg gaatttnttt gtgtatatct caacttcaaa ggcctacaga 60  
 atctacctac catagagcaa caaagtaatc atcagcaggg atgtcaaatt tctggagtca 120  
 gatagttggg actggaaaaa tgataagagg tccgagtttc aggaggagaa tgaagatggt 180  
 gatgaagaac ccataagagg aaccagatca ctttcagaca tctgccaaag gtgtaatggt 240  
 gctgtgatgg agcctgacgg atatgaagaa gctacagctg atcagaaatg gataaatgca 300  
 atgaaagagg agcttacaat gattgaaaaa aataaaacat gggagctggt ggacagacct 360  
 aaccacaaga aagcgattgg tgtcaagtgg gtttatagaa ccaagctcaa tccggatggt 420  
 tc 422

<210> 8667  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8667

ttttagtcc tctttgatca aaggttcatt tataacattt ctcaggccat aatagggatg 60  
 atagaaatag atctaaacca aacagtctcc ctaatttata tttcacctaa ttacactatg 120  
 aatcttagtg atttcataca aaacataaac ctagaagtcc aaacaatagg ttttggaaga 180  
 aactttgagg gacataattt atacttggat attaacttca ttggtagaat aagtgatcaa 240  
 atatccccta gatacaggat aaacactaat ccattagtga caaccttatt atctgatgga 300  
 atccaatttt tgccacccaa aatatttgat tctccagaa accaaaacaa tcaatggcaa 360  
 acacatattg aggctggatc ctctaggagt gcaataacca ctcccgggat cactatnnat 420  
 acaaacaa 428

<210> 8668  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <400> 8668

actcagcttg agaaaactac gacaattttt taactcggat tctaactcgag ccctgtaata 60  
 tatcgagacg ctcgtaattg aaaacggaag ctctaagaaa agtcaaacga caataacttt 120  
 taactcggat gtctgatcga gccctataat atatcaagac gctctaaatt gaaaacggaa 180  
 gctctaagaa aagtcaaacg acaataactt ttaactcgga tgtcctattg agccctgtaa 240  
 tatatcgaga cgctcgaaat tgaaaacgga agctctaaga aaagtcaaac gacaataact 300  
 tttaactcgg atgtccgac gagccctgta atatatcgag acgctcgtaa ttgaaaccga 360  
 agctctagaa aagtcaaacg 380

<210> 8669  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 8669

agcttcaggt ttcaatttcg tgcgtctcga tatacttctg gacacaatcg gacacccgag 60

ttaaaagtta ttgtcgtttg aatttgatca gtgtttttgg tttcaatttc gagcgtctcg 120

atattttacg cggctctatc cgacatccga gttaaaagtt attgtcggta gatttttcta 180

agggttttcc ttttcaattc cgagcgtctt gatataattaa cggacacaat cggacacccg 240

agttaaaact tattgtcgtt tgaattttct tagagcttgt gttttcaatt 290

<210> 8670

<211> 322

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8670

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agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180

cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240

aaaagattga agaagatgag gaggtaaacta tggctcgatt tcttaatggg ttgactaatg 300

atatccgtga tattgttgag ct 322

<210> 8671

<211> 323

<212> DNA

<213> Glycine max

<400> 8671

agctttacta gtgaggtcgt gcttattttt aaaccttttg ctaaatctcg ataggtgatc 60

ctttgtgata aaggaagctg acaaaaattca tcatcattta attgaacact cttcactcca 120

caattttttt tcctatgaga cacatcacct atcttgattc tttgcctcca aatgcattca 180

atcacactaa tggaaactga atatgttgaa gcaactaatt ctttggtatt ttctttcaat 240

ttcctattag aattgtgcta atataggaaa ttagctatgg ccatacggtc ttcattgctt 300

aaaaacttat gttgaccatt tat 323

<210> 8672  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 8672

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 agttattgtc gtttgaattt gtcagagct ttggtattcc atttcgagct tctcgatata 120  
 ttacgagact caatcggaca tccgagtaaa aatttattgt cgtttgaatt tgcttaaagc 180  
 ttcaacattc aattacgagc gtgcggatat attacggtac tcaatcagac atccgagtaa 240  
 aaagttattg gcgtttgaat tggctcagag cttcgggagt ccatttcgag cttctcgata 300  
 tattacggga ctcaatcaga catccgagta aaaagggtatt gtcgtttgaa tttgctc 357

<210> 8673  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8673

tgatccttga atcttgattc ttgattcttg ttatcatttt ttcttttgaa tcntgaaggg 60  
 ttcttgattc tatcttgaac atcttgaact cattctttct tgattctatc ttgaacatct 120  
 tgaactcatt ctttgattaa cttttgagct ttttgtcatc acctttgtta tcatcaaaac 180  
 atctttgaat caatattgat tcatcatgaa gctttgcttc tacacatgac cctccagtta 240  
 gctgatcgct ccacgcaag accatatgga gtgattgaag atgttttggg gaagggtgaaa 300  
 caccttatat tcccagctga ttttgttgtg atagacatag aagaggacac tgatattcct 360  
 ctcatctctg gtgcgccatt catgtctact gcaagctgtg tagtaaatat gggaaagaaa 420  
 gatgtgcaaa tgggcataga agatcaggaa atcagctttg atttatttca tga 473

<210> 8674  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 8674

agcttagagt agaactcatc atcccaatta tgtaacacc atgagaacta aaaaccagcc 60

taagtatgat taaagaaaca gaaaaaaca tcaacagagga cataaagata aaacagtcaa 120  
gaaaaacata aattggataa atcaaaaattt attattatga tataatatac atacaacaat 180  
ttataaataa tttttgtgtg tttttttctc tatatcatta tgacatgtaa taaataatgt 240  
gtagaagaga agtagacaca aaataactat tgtatgaata ttattgagca aataatattt 300  
ctttcaaaat tatatat 317

<210> 8675  
<211> 405  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8675

tgctctatga aacatttatg ctttacaatt tgttaacttt gatattatca aattgtgaat 60  
ttcttattca gttgccacga ccgataggaa atctgggttaa tttacgccac ctggacatca 120  
gttacctaa ttttccagag atggcaacac aaatctgtag actacaatat cttcgtactt 180  
tgacagtttt tattgttggc aaacaagatg gattaagtat cagagattta agaaaatttc 240  
cttatttgtt gggcaagctt tccattctga acctgcaaaa tgttgtcaat cctgtggatg 300  
catttcgggc caacttanag aacaaagagc aaattgagga gcttatgctg gagtggggaa 360  
gcaatccaca agatccacag atcgaaaaaa atgtacttaa caact 405

<210> 8676  
<211> 312  
<212> DNA  
<213> Glycine max  
<400> 8676

agcttccgct tgaggggaag gctacgatgt gtaatatact cacactggag ggggagatgt 60  
gttgagtaca agtgtgaggt aaagtccac atcgggtaaa agtggaagg ttgagcacca 120  
tataagtgag gagaagaccc ataaacatga gccttaagggt tttgggttag agtgtggtgt 180  
caggcctcct tatgtggtgg ctctggtgcc agagggtgtac cctcgaatc tccccaat 240  
cagagccata tgaatcatgt ccaaagtatt gggcgatggt gacacctatt cttgtagcac 300  
aaacacaaca ag 312



<210> 8677  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8677

ttggagtttc caagtgccaa ttcgncgtct tcttttagttc agtcttcttc tggcttcaat 60  
 tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
 gctttccagg ttctgtatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180  
 tcatagttgc ttccatcaag aattggtggt ctgttcaactg gtccgccttc tttctccatg 240  
 ttcatcagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc 300  
 aattgaaatt ctgataccag gggacagatg tcgtaccgga tgtcacgaca tcacgcttca 360  
 gaacatgcag attatatgtg tccgtatgaa cagattaaac aagtaaataa cacaagagaa 420  
 ttgtttaccc agttcgggtgc aacctcacct acatcttggg gctaccaagc ccaggaggaa 480  
 atccactctc aatagtgtta gttcaag 507

<210> 8678  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 8678

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 ttattacctc acatggagct acatgccctg atacattcag gatttctgat ctcttggaat 120  
 ttaaagacga ccagtgtata attgagtaac tcgaaacaag atatgcatca tgctttgatg 180  
 ttgcccacaa caagtttctt aactgcaa at gaaaaaatag aggtataaca ttaatttttag 240  
 ttaactcatt gatcatggca tactctgaat ttttagaagg taatagtagg ataatttaaat 300  
 tctattatat gcaa 314

<210> 8679  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8679

tcaagctttc tccactaagt ttcctaatgc cggaaatggc nntattgatg gctttgggtct 60  
tagatgcagg gaagaatttc tccaagaaca ccctcttaag gtcatcccag ctaaaaatgg 120  
acctggggagc aaggtagtag agccaatctt ttgccactcc ctccagagaa tgaggaaaag 180  
ccttttagaaa gatatgatct tcttggacat caggggggctt catggtggaa caaacaatat 240  
ggaactcttt aatatgctta tgaggatctt cacctgcaag accatgaaac ttgggcagca 300  
aatgtattag tccagtcttg agaacatatg gaacaccctc accaggatat tgaatgcaca 360  
agctttcata agtgaaatca tgtgcaacca tctccctaag agtcctctca cgaagtggag 420  
gttgagccat gttctcacta tgaaaattag tagtgaaatg ctcaaaaaca gaatattcag 480  
aacacccttc acagaatgct caaaatg 507

<210> 8680  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 8680  
agcttaacag tttttttttt tccttagtgc aaacttttca aaatttttat caaaataatc 60  
ttcaaatgat tcatatttta gtgtatttta aatttttttg aatttttatc tacatatgaa 120  
ttagttatca aataattttt tattaatgca aaatttgata aatatgatat gcatgaaagg 180  
aactttcaat ctaatatgaa ttttaaaata aaattattca attaaaagtt attaaaagtt 240  
attaaatgat gtaatattta atgcattaca ttcatgtcat ttgatctctc ctatatattt 300  
attaattttt atatattaat aagat 325

<210> 8681  
<211> 325  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8681

agctntacaa caaatgccac ttactccaa gttntatatt gatatgttaa caaggacaca 60  
caagtatatt caccaggaaa acattgttgt ggaaggaaat tgtagtggtg tgattcaaaa 120  
gatccttcca cccaagcata aagaccctgg gagtgtgaacc attccttggt caattggaga 180

agtcactatg gaaaggcact tattgatctg ggagctagta ttaccataat gccactctcc 240  
atgtgcagaa ggttgggaga gttggagatc atgccacta ggatgacttt acaacttggt 300  
gaccgctcta ttaccagacc atatg 325

<210> 8682  
<211> 471  
<212> DNA  
<213> Glycine max  
<400> 8682

tgaaggcaaa ctggatgcat tggttaactt gtaacctatc tggccttgaa tcagaaaattt 60  
gtacctgtcg caaggggttg tggtttgtgc tcctctgctg accaccatac agacctttgc 120  
ccttccatgc agcaacctgg agcaattgaa cagcctgaag cttatgctgc aaatatttac 180  
aatagacctc ctcaacctca gcagcaaaat caaccacagc agaacaatta tgacctttcc 240  
agcaacagat acaacctgg atggaggaat caccctaacc tcagatggtc cagccctcag 300  
caacaacaac agcagcctgc tccttccttc caaaatgctg ctggcccaag cagaccatac 360  
attcctccac caatccaaca acagcaacaa ccctagaaac agccaacagt tgaggccct 420  
ccacaacctt ccctcgaaga acttgtgagg caaatgacta tgcagaacat g 471

<210> 8683  
<211> 499  
<212> DNA  
<213> Glycine max  
<400> 8683

tctaagcttt cgtgttaatt tcgagcgtct catataattg cttttgaatc gacctccggg 60  
gaaaagtat gaccatttga atttctcgag agctttcatt gttcaatttc gagtgtctcg 120  
atatattatg cgcttgaatc gaacctccat gtgaaaagat aagaccattt gaatttctcg 180  
agagcttccg ttgttcaatt tcatacgtct cgatatatta tgcgcctaaa tctgacttcc 240  
gagtgaatg ttatgacagt ttgaatttct cgagagcttt cgttgatcaa tttctagcgc 300  
ctcgaatatt atgcgcccga atcggaacct cgagtgaata gttatgacca tttgaatttc 360  
tcgagagcta tgcttgggtca atttcgagcg cctcgatata tcatgcgcct gaattggacc 420  
tccatgtgaa aagtatgacc atttgaattt ctcgagaact ttcagttgtc caatttcaag 480

cgcccaatat attatgcgc

499

<210> 8684  
<211> 593  
<212> DNA  
<213> Glycine max

<400> 8684

tcaagatgaa tcaagattga ttcaaagatt tttgatgttt acaaagatga tgacaaaaag 60  
caaagctcaa aagtcaagaa cacttcatga taacaaagat gatgatctca agaatcaaag 120  
aatgagttca agattgaatc aagaacactt caagggttcaa gaggaatttt gatttcaaga 180  
atcaagtttc aagattcaag ttccaagaat caagatcaag attcaagact aaagattcaa 240  
gaatcaagag aagactcaat caagataagt attaaaaagt ttttttataaa aactgagtgg 300  
cacatgaatt ttttctaaaa accttttacc aaagagtttt tactctctgg taatcgatta 360  
ccagattatt gtaatcgatt accaatagca aaatgttttt caaaaagctt tcaactgaat 420  
atacaacggt ccaattgatt tcaaaatggt gtaatcgatt acaatgattt ggtaatcgat 480  
taccagtatg tttgaacggt ggaatttcaa attagatgtg aagagtcaca tcctttcaca 540  
aaaagctttg tgtaatcgat tacactgatt tggtaatcta ttaccagtga tag 593

<210> 8685  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 8685

agcttgggtcc ccaacgctct cttcaatctc tcccaaaatc tagaggtaaa cctaggatct 60  
ctattagata ctatgctaga tggcacacca tgtaatctga caatcccact tatatacagg 120  
gagctcaact tctccaagga aaatatgata ttaatggcaa tgaagtgagt agacttagtc 180  
agtctatcaa caataacca gatagaatct aaacctctag gggttctagg tagtcctacc 240  
acaaaatcca tggaaatact atccctcttc cactagggtg tctctaaggg ttgtaacttc 300  
cctgaaggtc tctg 314

<210> 8686  
<211> 320  
<212> DNA

<213> Glycine max

<400> 8686

agcttgacaa gcaccaatc gcccttctga aagttgactt cgtgtctatt gctatccgtg 60  
aagtgtttca taaattgttg tgccttaata attttcttcc caaggcttct aaatatttct 120  
tcgtgattga ctaggaaatc aactgttctg atgttgatg ttccagccaa atactgtggc 180  
atattgggtg gtttcttgct aaaagtggct tcatatagtg aaatccagtt ccaacgtgca 240  
ctgaagtatt ataagaccat ccggtccaca tcaagaaata gcccctatgtc gatggatgat 300  
gatggacaaa atcctcaagt 320

<210> 8687

<211> 549

<212> DNA

<213> Glycine max

<400> 8687

taactgtttt gttaaatac atatctaata taaatcattt ttgtgataac aagatttgtc 60  
ttaaaccagt tcaatcatat gcatcaaagt ataaaaactt tcataaaaca aaaaaatggc 120  
tttgtggatg aaaagctgga aataacattc tgagtacaac attatgacaa aaacatttct 180  
tagtattgca tttgcataac ataaactgag attttcataa taacaatatt ctgataaatt 240  
tttttattta aataatgaac atcaaaacat aagaaaatgt gcattgacat taggttctca 300  
taatcatatc aaacatttca taatgagttt tgtgactaac caagtagaga gtttagttat 360  
ctaagtgttt gaacctctat gttaagactt tttgcatacc aaaataatct tgagtaaaag 420  
ttcaaaaaag gttaaagttc aagaaggtt aacaaagtca caataacccc tcattcttgt 480  
gatgttttaa tcacttcaac cataaccacc accagtgtcg tcgcaaccac caccaccaac 540  
aacaccaca 549

<210> 8688

<211> 438

<212> DNA

<213> Glycine max

<400> 8688

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tcttaagaag ggaggggtga attaagatac aaaaattatt cccaattaa aaatttcact 120  
ctctcttttt ggattaacaa tgcacctta atatgaatta ctcaaagac aatcctaaat 180  
aaacttcttt aaagcaaaag atgaatagca ataaataaaa gaagtttaag ggaagagaga 240  
atgcaaactc agtttttata ctggtttggc cagccctgt gcctacgtcc agttcctaag 300  
caaccgctt gagatttcga ctatcttgta aaatgccttt taaaaagtct gaaccacaca 360  
aggacaatcc ttcccttggt tcaaaaatcc ttacatctta agagaccctc agtatcttaa 420  
ccaaaatttc ttttgaat 438

<210> 8689  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 8689  
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ggaaaaacag agcgtttgga atgatttcgt aaatctcaga aaactattgg gaaatgctgg 120  
tgaaaacacg aatgccaagc agatataaat ttgaatgaag aatgtagagg ggcgtgtgaa 180  
gcaacggtcg aatttgcttt gtggtgaacg tgctattaat gttaagtgat tcgtttgggc 240  
acgttcagat tgcagtagct gctataattc ctctagcaga caaatgccca gcttgccct 300  
caatttttca aactgatttg catccaaagc ctttgtgaaa atatctgcta tttgttcctc 360  
agtgtcaaca tgcttcagtg tgatcacttt atcatcaaca agatctctga tatagcgatg 420  
tctaattgtca atgtgcttgg ttctgct 447

<210> 8690  
<211> 586  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8690  
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tggtgggcga gagctgaatt gttcctgaat gagggtcatg aacatattgg ccggtcggaa 120  
gttttactgt gattgggttg attcgtctat gggagtgaag gttatgcaag gagctagtca 180  
catgatctgt agccctgaa tctagtatcc aggaggtgga aagcgactg gtagaagggtg 240

GenBank accession number: U00096.1 (H. pylori strain NCTC 11637) (NCBI) (GenBank) (Accession: U00096.1) (H. pylori strain NCTC 11637) (NCBI) (GenBank) (Accession: U00096.1)

acatacctag gtttattgga gtattgacgg tgcatagaaga aattgatgca acctgtttgg 300  
gttgattggg tgtcgtgttc tcggcggatg gctcctggat taaggcgagt agtgccttgt 360  
actgctcagg ggagaagcga acgaactcat gggactcatg atgctgagct ngatcatcag 420  
tggctttgct ttctactgtc actacgttgt tcatgggtggc cctttcatcg taaggcttgt 480  
atcccggcgg gtacccatgt ttccgatagc agacatccac tgtatgtcct aacttgccga 540  
gtgggtgcac gtttttcctt ccttgttact ctaatttttc cattgg 586

<210> 8691  
<211> 240  
<212> DNA  
<213> Glycine max

<400> 8691

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ggactcgagc ttctcagggt ccacttggac cccattttcta ccaactacaa actctaagaa 120  
aactatatta tctacacaca aagtacactt atctatatatt gcatagaagg agattttcct 180  
aaagactgaa agagctagcc tgagatgtac ctaaggatca tctaggctcc tactgtacac 240

<210> 8692  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 8692

agcttaacaa aaggcatgcg aagtgggtgg aattcctata gcaatttcct tatgttatca 60  
aacataaaaaa gggaaaaagt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
tttctatgct tgaaaaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
atgaaacttt tgaaaaaatt tttaaaaatt gggaaaaaat ttcagaaaat ggtttcttta 240  
gacattaagg ctttcttttc aaagaaaaca aattgggggt gcctaaatgt tctactaaaa 300  
atttgcttgt ttgtgaagca catga 325

<210> 8693  
<211> 508  
<212> DNA  
<213> Glycine max

<400> 8693

tgaaatgcta caaaaaatgg ccaaatgccc aaggagtttt acaacttgct aacttttatt 60  
taaatagataa ctgataggct tgtaagtagg ggcaaattat tcctagatta ttacattttc 120  
aattggccttc tacatataat gcaactcatg tttttggtag ttttggagca ttggtagtat 180  
tgttatgaat atatgatatt ctatattagt tgttaaatct aatttcgatt tctcatatatt 240  
gtgtgtatatt atagggttaat tcatttattg tctattttgc tattcatcaa cttgcttttg 300  
tatttgactt gtttatgtaa ataggtagcg acttagagct ctttaactttg agtatgcttc 360  
agtgtgtcta caaggtagat cattaaatta acctcttggt atgaacttat gatattctat 420  
attaaattgt aaatctaaat acgggtttctc gtatttgagt gtatttataa gttaattcat 480  
ttattggcta ttttctattc atcaactt 508

<210> 8694

<211> 313

<212> DNA

<213> Glycine max

<400> 8694

tgccaaccca tggaagctcc taatatctcc cacactttat ggggcggggc attctcggat 60  
gggctcgatc ttctcaaggc ccacttggac cccattttota ccaactacaa actctaagaa 120  
aactatatta tctacacaca aagtacactt tctctatatt tgcatagagg agcgtgtttc 180  
taaagactga aagaacttgc ctgagatgtc ctaagtgatc atctaggctc ctactgtaca 240  
ctacaatatc atcaaaataa acaactacca atccacctat gaaatccctt aagacatgat 300  
gcataagcct cat 313

<210> 8695

<211> 314

<212> DNA

<213> Glycine max

<400> 8695

agctttgaga aatttttaac aacaataact ttttactcgg atgtccgaat aagtctcgta 60  
atatattgag acgcttgaaa ttgaaaacaa aagctctcag caaattcaaa cgacaataac 120  
cttttactca gatgtccgat tgtgtcccgat aatatatcga gatgctcgaa attcagaata 180



gaagctctga gcaaaatcaa acgacaataa cgttttactc ggatgtccga atgagtctcg 240  
 taatatattg agacgctcat aattgataac agaagctctg agaaaattct aacgacaata 300  
 acctttttacg caga 314

<210> 8696  
 <211> 649  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8696

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 cagcagcgcc gtctccactc tccaagaagc cgtagaggcc tacctcgttg tgctcttcga 120  
 ggacaccaac ctctgcacca ttcacccaaa agagttacca ttatgccaaa ggactgagggc 180  
 ctaccttggt gggctcttgt ttattttcat tgaatattga aattttaatt tttaaataaa 240  
 tatttaaaaa tgaaaatttg aattttattg aaattgaatc actttgtcca aataagaaaa 300  
 ttaaaataca agaatttgaa ttacctcadc caaacaaaat atttacaaaa ggaaaggaat 360  
 taaaatcaag gcaatcaaaa tgttatgaat ttaaatttct tagaaatttt taaattcctc 420  
 atccaaacac atgggttaggg tcatttntgt agagggaaaa gaaatataat gnaaacaaat 480  
 taagataaat tcttaaatta aagtacaacg taaaagtgtg aatatcacat cattatagga 540  
 tttatttagg tttttttggg ccgtttcttt gcattgaccg atgttatgag aaagagagaa 600  
 aatnaanata tatatatata tatatatata tatatatata tatatatat 649

<210> 8697  
 <211> 574  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8697

tttaagatgt gctcatttgt gtaaacattt tctatatttt ggtagtagnt catgctcacg 60  
 taaccacaag ctgcaataat gtgtgaacat ggatagtga ggcgagaata ctttctgcat 120  
 tgacaatgat gaccatttaa gttaactgcc cacttttgtc cgccgcgttg cgttataggg 180  
 ttgaaggtct cctctacttc aaaccttgtg gagtggatat catacacgca aatgatgtgc 240

gtacaagctt gttcttgatt tttcctaagt tctttaacaa gcttcgaaca atatacttgt 300  
ccttcattta aaagtctttg ggcttgggtg ccacgctcaa caaaatactt tcgacaccta 360  
cagtatatgg atttgaccaa tgttggtatg ggaatgttgc gacaatcctt taaaacctta 420  
ttgatacatt ctgagagggt gggtgtcatg tggccatatt gacgtccttc tctatcataa 480  
gccatcgctc atttttcttt tgaaatgcga tcaatccatg ttgctatggg ttgactcaat 540  
tgacgaaatt tgtctaaatt tgatcaaaat gtgc 574

<210> 8698  
<211> 316  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8698

tctgacattc accacatatt ctttcttctt ctatnttcag ataggggaatg cctctaacag 60  
cacctttgtc aatgatattc ttcattgctc ttaagtgcag atgtccaaat ctatgatgcc 120  
atattctgac ttcattcttc ttggatgata gacatgtgga ggagtcactg gtctcaagaa 180  
gtgtccatat ggaacagatg ccctttgatc tgctgccctt gattggaact tcactctctt 240  
catttgtagc aagcattctg accttgngaa gtatacattg aatccttcat cacacaactg 300  
actgatgctg atctat 316

<210> 8699  
<211> 349  
<212> DNA  
<213> Glycine max  
<400> 8699

agcttaataa atctatatat gggtttaaac atgactcccg tcagtgggtac ctttaagtttc 60  
atgggataat ttcttcattt gggtttgatg aaaatcccat ggatcaatgc atataccaca 120  
agggttagtga gagtaaaata tgttttcttg ttttatatgc aaatgatatt ttaattacat 180  
gagggtgaaac aatttctttt taagaatttt gacatgaagg atatgggtga tgcattctat 240  
gtcatcggca ttaagattca tagagataga cctcgaggta ttttaggtct atcacaggaa 300  
acctatatta acaaaatttt gagagatttt ggatgaaaga ttatctacc 349

<210> 8700  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 8700

agcttcgtcc atgtcgccag tcaactggct tttgtggcca atactccaag ttagcaaaaa 60  
 ggttctacga cccatttcaa attgttcaaa ggatcggacc tgtagcatat aaacttgact 120  
 taccttcaac ctctagaatc caccctgtct tgcattggtc cttactcaag ccttatcact 180  
 ctttactgac cacaacagaa acacccatcc ccttgcccaa tgctgatgaa gatttctaac 240  
 ccttcctcca cccctctcac tgtat 265

<210> 8701  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 8701

atacagaata cagatccctt ctgcataatg ggcaagaacc atgtctgaag agccacttat 60  
 ctatgcaagg gaggtgaaac atgtgatggc aatgaggcaa acttcttact gtctctccaa 120  
 gcataaagtc ctatatattg cacaaatgca caaatttcat atatcacaat acacaatctt 180  
 agaaaacata tagttcaagg gatacacatc tagtgggtatt gacgatgtaa agtgtaaaac 240  
 taacctgcag caaac 255

<210> 8702  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8702

agcttcaaac cacaacaaca caaattctag gtatcccaaa cccctcaatt tgatggattt 60  
 tcatgggtttg agaagtgaag ttgagaatga ggtaaatttg aagcaaactc tcacctcaca 120  
 caagtctata agtactaacg taacaactca aacgatatgt atgcacaaaa caaaagtcaa 180  
 tcaaaacgaa acaaacgtta gccctcagt taaacaaaaa taaaatgata tgtaacagat 240  
 aaaagaggaa acataanaag agaatatgga tctagggatc tccaatcat gtggctccgc 300

atgccacccg gact

314

<210> 8703

<211> 320

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8703

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gtntntttct aattgcattg tgtgtcataa ggcaaagtcc aaagtcattg atcatgggtt 120

gcatactcca ttgtcaattc ctacctccc ttggacctac atttccatag attntgtgct 180

tgctcttcca aggtccaaga gggacaagga ttccgatttc ttgggttgta taagtttcca 240

agatggcaca cttcattcca tgtcataagg tggatgatgn ctgtcatgta gcggatctgt 300

tcttcacaga agtaatgtgt 320

<210> 8704

<211> 221

<212> DNA

<213> Glycine max

<400> 8704

agcttctatt tataggttca ctctatttt ctctacaatt gcatcacctt tcaatgagct 60

ggtgaagaag aatgtggcat ttacctgggg tgaaaaacaa gatcaagcct ttgctttgct 120

caaagaaaag cttactaagg cacctgttct agctcttctt gacttttcta aaacttttga 180

gctagaatgt gatgccctg gagtgggagt tgggaactga t 221

<210> 8705

<211> 274

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8705

tgtgcttcaa tgttcaattn tgagcatctc gatatattat gcacctgaat cgggcatctg 60

agtgaaaagt tatgtcatat gagttagccg agagcttcgt tgttcgattt cgagcgtctc 120

gacatattat tggcctgaat cggacatccg agtcacaagt tatggcgggt taaactctcc 180

atgtgcttcc atgtgtaatt ttgagcatct cgatatatta tgcaccttaa tcggacatct 240  
gagtgagaag atatgccata tgagatagcc gaga 274

<210> 8706  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 8706

ttgatctacc accaccgccg ccaccattat ctttgttttc tattattatt agtactttga 60  
tttctagctg tgtatttggc tatattatta tgaaatttga acaatttagt atttctttta 120  
tttgcattgt gtgattgaaa aattatgaat tatgtcatat gactatgtgg tttttatata 180  
tttgatctat tcatgtttct tgcttcatga ttgggttata ctctttaatg aatgtcttgt 240  
gtatgattag tagtgtatgt atgttttttt cttgttacgc actttggcctt ttt 293

<210> 8707  
<211> 465  
<212> DNA  
<213> Glycine max

<400> 8707

gttatcaaac ataaaaaggg aaaaggtaat attgtagccg atgctctttc tcggcgatcat 60  
gccttacttt ctatgcttga aacaaaattg attggtcttg aatgtttgaa aagcatgtat 120  
gaaaatgatg aaacttttgg agaaattttt aaaaattgtg aaaatttttc agaaaatggg 180  
ttcttttagac atgaaggctt tcttttcaaa gaaaacaaat tgtgtgtgcc taaatgttct 240  
actagaaatt tgcttttttg tgaagcacat gaaggagggt taatggggca ttttgggggc 300  
caaaagactc tagaaacatt acaagaacat ttttattggc ctcatatgaa aaaggatgtg 360  
cagagatttt gtgaacattg cattgtatgt aaaaaggcaa agtctaagggt aaagcctcat 420  
ggatcgata ctccattgac aattccggag tatccttgga ttgat 465

<210> 8708  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 8708

tcaacatcag accacttcca ggggtgctgga actacttcac atggacttga tggggcccat 60  
gcattgttgaa agccttggag gaaagagggtc tgcctatgtt gttagggatg atttctccag 120  
atttacctgc gtcaactttt tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180  
gagtctaaga cttcaaagag aaaaagactg tgtcatcaag ataattacga gtgaccatgg 240  
cggagagttt gaaaacagca agtttactga attgtgcaca tctgaa 286

<210> 8709  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 8709

tcgattacca atagcaaagt ttgttttcaa aaagctttca aactgaattt acaacgttcc 60  
aattattttc aaaatgggtgc aatcgattac aagatttttg taatcaatta ccagtgtgtt 120  
tgaacgttga aatgcaaatt caattgtgaa gagtcacatc ctttcacaaa aatgctttgt 180  
gtaatcgatt acaattgaaa ttctgatact ggggacagat gtcgtacagg atgtcacgac 240  
atcacgcttc agaacatgca gattgtcttt gactgtatga acaaattaag caagtaaata 300  
acacaagaga attgtaacct agttcgggtgc aacctcacct acatctgggg gctaccaagc 360  
cagggaggaa atccactaaa atagtgttag ttcaaggctt aacagccact gtttacaacc 420  
ttctcaccta accactacct gtgcaatc 448

<210> 8710  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 8710

cacctcaag cgggacgtcg tcgcgccgca cgccgggtgga gatgttacct gccttctggg 60  
agtccaccag attcaagggtc tttggaggca gcgttagggg ttgcttttcc cgcctaagag 120  
tcgagaaaatt ggcgctctgg ggccgccgcg ccacgaaggg ggacgagtgg cgggggatcg 180  
ataacctttt tctgggaatg gggatggaat ctgtcgtggg tttctgtttg aagggagggt 240  
caatgttgtc ccagggggct ctgggggtta ttgttgaaa ttggtaatgt tgtgttggat 300  
aaatattgat tgtgggttat tttggatcaa tgagtgcag attatgaaat gctgatgttt 360

gattcagtct atacagtgcc ttgtgtatat acatttaac 399

<210> 8711

<211> 283

<212> DNA

<213> Glycine max

<400> 8711

taattggagc ttggatgcct atgatcttct tcatcaatgg attcctttgc ttctaggaag 60

attaatggca gcggtgtgga tattggaaca gagagaggag acgccgctta agggataaca 120

tgagtctaga agaagcttac caccatagga ggccatggat aaaagcttgg atgacgatgg 180

atatgaatga acggagaggg atataacagc ccgacctttt gtgctctaaa ggcgctctga 240

gatctgacat ttaatcttca aatgatcata gcttagacaa ttg 283

<210> 8712

<211> 294

<212> DNA

<213> Glycine max

<400> 8712

tgctggcctc aggcgctgtg gcaagagttg tctccttctt tggacgaatt atcttcgccc 60

agacttgaag agagggctcc tcacagaggc agaggagcaa cttgttattg atctccatgc 120

ccgtcttggc aacagggtttt ttgttcttcg caagcttagc tacatgcatt gccttctttt 180

tgtgaacaat tctttcatga acacagtttt tataagtatg aaaaactgat tttttttgtt 240

atattattatt ttagtacatc ttggacttgt aagtgtccgt gcctgctgta gacc 294

<210> 8713

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8713

gggagagata actgacaaaa tcttttcatg gctattcttc cagaagaacg ctcccctgat 60

gtagtttcgt ttatagcttg gaccatctca tttttgctga catatccatc cttgttcttg 120

tctaagaata caaatgtatc aaccaaagtc tcaaatgtgc cctccagctt tggcatccca 180

attcgtgatt tctaggaag tcatggaaaa aaattcgaag atgtagcaaa acatggaaat 240  
tcaagggttta ttgttatcaa tgcaagcatg atgaaattct aggctgccct gaagaaatgc 300  
atgaaatgtc cataaaataa aataaaaaaag gaatgaacat atagaatnga attgttcata 360  
aagtacaaac atcttctgaa tatagaaatg atgggcgata agctgcaaaa gacagaatcc 420  
gattcaatct caaaagtaat gttacaaccc aactaatc 458

<210> 8714  
<211> 290  
<212> DNA  
<213> Glycine max

<400> 8714

tgcatacaag attctccttg tctggctctt cataaccttc tggttgggtc atatagatgt 60  
cttcctctaa atccgcatgc aagaatgcag ttttaacatc taactgctcc aagtgaagat 120  
tctctgcagc tactatgctc agaataactc tgatggtagt catctttaca aatggagaga 180  
agatctctgt gaaatcaatt ccttgtttct gctgaaaccc tttcaccaca agtctcgcct 240  
tgtatcttct tctaccgtta gattcttcct ttaacctata gaccaccta 290

<210> 8715  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 8715

aacacagcag ctttcggtga accaacccca taatacacag aaatcactaa ctaatactag 60  
agctccctct actcttacag atggagatgc cccatcatgc tcaacttcac catctactaa 120  
taactgccag atatctccga atctgatgaa aagaaatcaa caagtatcag ccacattagg 180  
aggaccttcg gtagttgaac ccaccaatca tctgatgcag gagcttcata gcaagtctga 240  
gatgcagatc aaacatgaat tgcccagtggt aagaggaact gatcagctga agttcacagg 300  
gactgttgct gatcagatgg aagcttcttc tggaacatct tactgtattg atcctaataa 360  
ta 362

<210> 8716  
<211> 297  
<212> DNA



<213> Glycine max

<400> 8716

ttgactaccc ttcagataca atactttcag gcatgaagtt gggattgaac ctcagaactg 60  
gtattgaatg gagaatgaca tcttggaaga atcccaatga tccatcccca ggagactttt 120  
attgggggtct tttgctttat aattatcctg agttttatct gatgatggga acagaaaagt 180  
ttgtgagagt tggaccatgg aatggcctgc atttcagtgg cataccagat caaaagccta 240  
acccgattta tgctttcaac tacatatcca acaaggatga gaagtactac acttata 297

<210> 8717

<211> 295

<212> DNA

<213> Glycine max

<400> 8717

tctacttatg ttaaagaatt ggccgctatc actgccgccg tgaagaaatg gagacaatac 60  
ctccttggcc atcactttac aattcttaca gaccatcgaa gcctcaagga gttaattact 120  
caggttatgc aaaccctga acaacaatta tatttagcca gactcattgg gtatgattat 180  
tctatccaat ttctttccgg gaacactaat gtcactactg atgccctatc atgaattccc 240  
acaacttaga ctagtgcctt tctcttatta tcaatgccta attttgtgtt cctgg 295

<210> 8718

<211> 295

<212> DNA

<213> Glycine max

<400> 8718

tgaggacaca tgaacgaaaa tgcaatttat ggtgctccga aaaagggatg agaatggaga 60  
attgcactaa gcaatcacta cgcatggctc caaactcgaa ggtggaggac acatgaatga 120  
aaatgcaatt catggggctc cgaaaaaggg tgagaatgga gaattgcact aagtgttagt 180  
gtttggctct actgagcttt aaaagattgg ctaagatttt gttaaaacat aagcacttag 240  
acaatgaagg aaaactggag ttgctgcaca tgatgtccaa cgttatgtca aggaa 295

<210> 8719

<211> 287

<212> DNA

<213> Glycine max

<400> 8719

tgaatcggac atccgtgtgt taagttttga ccatttgaat ggcacgagag cttccgttgt 60  
tcaatttcga gtgtcactat atgtgatgcg ccaaaattgg acattcgagt taagtgttat 120  
gaccatttga atttctcaag agcttccggt gttcaattct gagcgtctcg ttatgtgatt 180  
tgcctgaatc ggacatccgt gtgaaaagtt atgaccattt gcatttctca agagctatcg 240  
atgttcaatt tcaagcctct cgacatatta tgcgcccga tggaca 287

<210> 8720

<211> 336

<212> DNA

<213> Glycine max

<400> 8720

cacggatgtc cgattcgggc gcataatatg tcgagagggt cgaaattgaa caacggaagc 60  
tcttgagaaa ttcaaattgg cataactttt cacacggatg tccgattcag gagcatcaca 120  
tatagagacg cacgaaatta aaatgggtcat aactttgcac actgctgtcc gatataagct 180  
tatactctgt tgttccactc gagattatac atcgtacact ctctagaaat tgaactggcc 240  
gataactttt cacacatatg atcgattcga gcgcatacta tgacgagagg ctctggcttg 300  
aataacggaa gcacttgaga aattcaacag gggata 336

<210> 8721

<211> 297

<212> DNA

<213> Glycine max

<400> 8721

ttgagcaaat tgaaatgaca ataactttat actctgatgt ccggttgagt cccgtgatat 60  
atcgagacgc tcaaaattta gatccgaagc tctgagaaaa ttgaattgac aataacttta 120  
tacacggatg tccggttgag tcccgtaata tatcgagacg ctccaaattg aaaacggaaa 180  
ctcttagaaa attcaaacga caataacttt ttactcggat gcccgacaga gtgtcgtaat 240  
ttatcgaggg atgctccaaa ttgaaaacga aagctcgtat catattcaaa cgacaat 297

<210> 8722

<211> 346  
 <212> DNA  
 <213> Glycine max

<400> 8722

cgagtaaaaa gttattgtcc gttgaattgg ctcgtaggtt caacattcaa tttcaagcgt 60  
 ctcgatatat taccggactc aatcagacat gtgagtaaaa agttattatc gtttgaattg 120  
 gctcataggt tcaacattca acttcgagcg tctcgatata ttacgggact caatcagaca 180  
 tccgagtaaa aagttattgc cgtttaaatt agctcatagg ttcaacattc aatttcgagc 240  
 gtctcaatat atttcgggac tcaatcagac atccgagtta caaagttatt gtcctttgag 300  
 taggctcaga gggttcaacat tcaatgtcga gcgacccgat atatta 346

<210> 8723  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<400> 8723

aatccgatcc ttgggttaatg gatatttgaa gatgtcagca atttgatcca cagaagaata 60  
 catgacagat ttggagcaat ttggattcaa caagctcatg aatgaaatgg aaatccaaag 120  
 caatatgttt ggacctagtg tgtataacag gattcttggt cagaaaaatg gcgctgacat 180  
 tatcacataa caataatgga ggacgtctaa taggaacaca aagatcttga agcagttgtt 240  
 tgatccacaa cagctcacca gcagtgtatg cgagtgaaca atacttaact tcggtgctag 300  
 atcttgcaac aactcgttgt tttcgagaag tccacctgat aagattggat ccatgaaaga 360  
 tggcatatcc atactaagac ctgctatctt cagtgtctaa aaagccacca tcattctgaa 420  
 taagcgagaa gagattgagc tctttagagt gtgaaatgaa tgcagcgatg tgaggttcct 480  
 tt 482

<210> 8724  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 8724

tccaggtaac caaaaaagat cattttcccc tgccattcat tgatcaaag cttgagcgct 60

tggcaagtat gtctcattac aatTTTTTTta tggTtcttat ggTtatttac aaattcatat 120  
 tgTcctgag gatcaagaaa acaccacatt cacctatccc tttggcattt ttgcctatag 180  
 gaggatgccc tttggcctat gcaacgcctc tggTaccTtc caacggtgta tgcttagcat 240  
 tttcaatgat tttttacaga gttgcataga tgtgtttatg gatgattata ctgtttatgg 300  
 atcctctttt gatgcatgtt tggatagtct acatagagtt cttaataaat gcattgaaac 360  
 taaccctgtg ctgaatttct gaaaatgtca cttcatg 397

<210> 8725  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8725

gaataagaat gaaaattaga aacgggaaag aaaagctggg ttgcctccca gtaagcgctc 60  
 ttttaatgtc actagcttga cacatcatcc tgTtatctag gatccaatag agttcctact 120  
 tcaaggacct tcttctcaag tctcctttcc tccatcacat acactttaaa atagacattt 180  
 tggccaggTg gatctttgtc ctcatggaac aaatcaaagc tgatcttcta tgcccatctg 240  
 cagcatcttc tttcccatgt cgcctatgca gtttgcaTta tatatgaatg ggcgccaag 300  
 aatgagagga atgccaacat cctcttctat gtctatgaca atgaaatcag ctggaaatat 360  
 aaggTgttta accttcacca naacatcttc aatgactcca tatggccttg tgatggaa 418

<210> 8726  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
 <400> 8726

tggatttcct tttagtaggg aatttattct tcctaagatg gagccaaacc cagtcaccct 60  
 cattaagaac tagctctttt cttcctctat tgcttttagt tgaatacacc tttgtttgat 120  
 tctctatttg gttcttaacc ctctcatgca tcttctttac aaattctgac ctagattccc 180  
 cttctttatg tataaaagaa gtgtccagtg ggaggggaat gaggtctaac ggtgttaggg 240  
 gattgaaccc atagacaacc tcaaaagggg actgcttggt ggttctatga acc 293

<210> 8727  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 8727

ggcgcataat atatcgaaac gctcgaaatt gaacatcgga agctctcgag aaattcaaatt 60  
 ggtcataact tttaactcgg atgtctgatt taggcgcata atatatcgag acgctcgaaa 120  
 ttgaacatcg gaagctctcg agatattcaa atgggcatat ctattcactc ggggggtgcga 180  
 tttaggcgca taatatatcg agacgctcga aattgaacat cggaaacctc cagaaactct 240  
 aacgggcata aattttcact tcggg 265

<210> 8728  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 8728

tcaacatcag accacttcca tgggtgctgga actacttcac atggacttga tggggcctat 60  
 gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120  
 atttacctgg gtcaacttta tcagagaaaa atcagacacc tttgaagtat tcaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaatcatga gtgaccatgg 240  
 cagagagttt gaaaatagca ggtttactga attctgcaca tctgaagg 288

<210> 8729  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 8729

tgtgcaccaa tgcacactcc acgagactat ccgagtaaaa agtggagcct gggatgacaa 60  
 tggcattttt atttacacaa cattaaatca tataaaatat tgcttcccca atggagatag 120  
 tgggataatt aaaacattgg atgtcccaat ttatattaca aaggttggtg gaaacaccat 180  
 cttctgcttg ggtcgggatg ggaaaaacaa agctataact gttgatgcaa cagaatatat 240  
 ctttaagctt tccttggtga agaaaaaata tgatcatgta atgaaca 287

<210> 8730  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 8730

attttgacat atcattttaa taatagcact gtacatccat gaccataact ctaagctgaa 60  
 tgcagagcaa gaaaatccaa acataccttc aggtcactaa atgtttcagt tgctataaaa 120  
 cgaactgaaa tggggaagaa tgctgatggt tcggcttggt gaacaacaaa ttccattgac 180  
 ccactggcaa atatatttag tcaggcaaaa caagttcaaa aataccatga caataatact 240  
 gcacatgtta gctcttaaaa gcatcacact atcaccccaa atttagcata cctgcgggtt 300  
 gaattatcaa tcagaaggac agaccactcc aaaaaggaat tccttgagtc atacctgcaa 360  
 agccaaatta taggagatta ttaagagaga cagaccgaaa tgtgaaataa aatgatctca 420  
 aaatatatat gataaacgtc atcacatgat gattctggga gtggagggg 469

<210> 8731  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8731

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 catctatcat acttctctcc atattactga gtccttcata aaaatattgg agaagaagct 180  
 gttctgaaat ctgatggtga gggcaactgg cacatagttt cttaaategc tcccagtact 240  
 catacaggct ctctccactg agttgtctaa tacctgagat atctttcctg atggctgtgg 300  
 tcctggaagc agggaaaatt ctgtctaaga atactctctt aagggtcatcc cagctcgtga 360  
 tggaccttgg agcaaggtaa tacaaccagt cctttgccac tccctctaataaat gaatgaggaa 420  
 aagccttcag aaatatgtga tcctcttgga catcntgggg gttca 465

<210> 8732  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 8732

tatgctgcaa acatttataa tagaccctct cagtagcaaa accaacaaca gcagaataat 60  
tatgaccttt caagcaatag atacaatcca agttggagga atcatccaaa tctgagatgg 120  
gcaagtcctc cacaacaaca acagcctatc cctcccttcc agaatgctgc tgctccaagc 180  
aggccatata ttcctcctcc aatgcagcag cagcagcaac aacaacaaca aagacaacaa 240  
gcagctgagg cccctcctca accttcagaa tatgcaattt cagcaagaga ca 292

<210> 8733

<211> 425

<212> DNA

<213> Glycine max

<400> 8733

gattgattcc tttcttgatt cgaaatacag tattatttgg aaagagtatg agcaggttct 60  
agcaaaggag gaagttcatt ggtatacaaa atctaaggct aaatggcttc atttggggga 120  
tcgcaacccc aagtcctttc atggtgtgac tattatccgt cgaaggagga ataggtatga 180  
tatgattaaa gatggtgatg gtaattgggt ggtggattcc gagaagttgg aggagatggc 240  
tactaagttc tataaggact tgtatacaaa ggatttcata tatcttcctt tgggtgacatc 300  
tcatgcgttt ccaaaattaa gggatgaggc cagagaggag ttaaggagga ttccatcact 360  
aagagaaatc tattatacca tcaaacaaat ggggagtctc aaggcttctt gccctgatgg 420  
attct 425

<210> 8734

<211> 472

<212> DNA

<213> Glycine max

<400> 8734

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caggatgtca cgacatcacg cttcagaaca tgcagatcgt atgtgtccgt atgaacagat 120  
ttaaacaagt aaataacaca agagaattgt taaccagtt cggtgcaacc tcacctacat 180  
ctggggggcta ccaagccagg gaggaatcc actaaaatag tgtagttca aggtctaaca 240  
gccctgtttt acaaccttct cacctaacca ctaccgtgc gatctctacc taagagccac 300

tcttagatat gagaacctgc gctcactccc tctcaaccac actcccgtgt ttacaaatta 360  
atcaaagaca caccagagat caactctgaa caaaagagat caactctaca cactagagat 420  
caactctaca cactagagat caactctaca cacaagagat caactctaca ca 472

<210> 8735  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 8735

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tgaagcagag ttcaatgatt caatactaaa aacatttaac tcgaatgaca cgttgatgtc 120  
cttggcgtat tggatcaaat tctctctagt gaaattgagc tcaacctcat cacaagtgga 180  
gggtgacaca atggcagtga ccttgagtga aggtgccccca ctactcctca aggcaagctc 240  
ttgcataaaa gatgaccact gtactccaaa cccaatatca aaatcaat 288

<210> 8736  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 8736

tcaccatggc cactacgaat tctgtgtgat gccattcggc ttgtgtaatg ctctatcgtc 60  
cttccaagcc actatgaaca acatcttttg accataccta cacaagttca ttattgcctt 120  
ctttgatgat atattgattt atagtaagac ctttccagag catattgatc acctcacaaa 180  
agcttttgca gtttttctcg aaggaagctt cttcctcaag ctactaaat gtacctttgc 240  
ccaacaacaa gtgtggggca tattgtatcc cgacagggca tagaacctgt tcccacacaa 300  
gttgaggcaa ttcaggcatg gctagttccg cgttcaacgc ggggattatg gggtttctg 360  
gactttcagt gttctatcag cacttcacca agggctatgc atccatcata gtcctttg 419

<210> 8737  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 8737



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agatcctatc cctattacag aacctataac ttgcactcaa tgggccatta cttgcaatgt 120  
taccaatctg attctgatat aataatgaag acttgaatag tgatgatgat tcttgatatca 180  
ccccagcttt tacttggaag tcttcgaaag tcatttccac aagtgtttgc taccttttga 240  
gtagtggctc attcccgaca aggcattat tagcttcatt gtagtgtggt tggcttttgt 300  
ggatctgaga ccaaatttca tccacagttt tcttgcaaat tgggggaggg acagataatg 360  
gttgggaaat agtgggtgggt tctgttgcta ctacactttt accctttgca gcttcatcaa 420  
gggtgggtag t 431

<210> 8738  
<211> 284  
<212> DNA  
<213> Glycine max  
<400> 8738

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agaagaatgt ggcatttaac tggggtgaaa aacaagagca agcctttgct ttgcttaaag 120  
aaaagcttac taaggcacct gttctagctc ttcctaactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgttttgtt gcaagggtggg caccctattg 240  
cttatttttag tgaaaaactt catggtgcga cccttaacta cccc 284

<210> 8739  
<211> 383  
<212> DNA  
<213> Glycine max  
<400> 8739

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cgaacatccg tgtgaaaagt tatgaccgtt tgagtttctc gagagctttc gtcgttcaat 120  
tccgagcatc tcgacatatt atgtgcccga atctgacctt cgtgtgaaaa gttatgacca 180  
tttgaatttc tcgagagctt ccgatgttta atttcgagcg tctcagtata ttgctagcct 240  
gaatcggagc tcagtgtgaa aaggtatgac ctttttgatt tctcgagagc ttccttgggt 300  
caattccgag cgtctctaca tattatgtgc ccgaatctga ccttcgtgtg aaaagtaatg 360

accatttgaa tttctcgaga gct

383

<210> 8740

<211> 447

<212> DNA

<213> Glycine max

<400> 8740

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atgggctaata accaggaatg ttcgctaggg tccagcctat agccttcttg tgcttcttga 120  
gaactgataa tagcttctcc tcttgctcat cagcaaggga ggtagatgta attactggaa 180  
aacttttgct atcatccaag taagcatatt ttaaatttga tggcagaggc ttcaattctg 240  
gtgtgggagg ctggataatg gtagaaagag atgggttctc agcctgtacc tcaaaaataa 300  
agtcagagggt atgtgtatct cctgaaacat ggtagttct atctgactct agaaaatcaa 360  
tctcaagagg taaaacatca ccagacatgt aatcaatctc aatttcagat tcaactctcag 420  
catccaattc atccatatga tcaacta 447

<210> 8741

<211> 293

<212> DNA

<213> Glycine max

<400> 8741

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gtggccaaag atgcatggga gatcctgaaa atcactcatg aaggaacctc caaagtgaag 120  
atgtccagat tgcaactgtt ggccacaaaa ttctaaaatc tgaagatgaa ggaggaagaa 180  
tgcatcatg acttccacat gaacattctt gaaattgcca atgcttgccac tgccttggga 240  
gagaagatga cagatgaaaa gctggtgaga aagatcctca gatccttgcc taa 293

<210> 8742

<211> 286

<212> DNA

<213> Glycine max

<400> 8742

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atttaaattgg tcatagcttt tcaactcagat gtccgattca tgtgcataat atactcgagac 120  
gctcgaaatt caacaatgga agctctggag caattcaaatt ggtcgtaact tttcactcgg 180  
agatccgatt caggcgcata atatatcgag acgctcgaaa ttcattcaacg gaagctctcg 240  
agaaattcaa atggccataa cttttaactc ggaggtgcga ttcacg 286

<210> 8743  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 8743

agaggttttag aaatattaaa aaaagagaca acatcatttt tatttaaaaa ccaatgttat 60  
ctacacattt gacaacatca gttttcaaaa accaatgtac tagcaacatc ttaaaaaactg 120  
atgttaagtt tctgctagta acatcagttt tttgaaaatt gatgttagga agttccattt 180  
aattacaaaa atgccaccac aaataatttc acattagttt ttcttgtaac caatattaaa 240  
ttggtgatgt tgattgcata tttttagttt gtgatatcat gtatcataac tgaaaacaag 300  
tgctcaaagc taagaaacaa ctgatttggg aggacattat ggtatttcca ctaaacaatc 360  
tacgttatag taattcaatg tatttagctt gcattatggt ttcattcact aactgttaca 420  
taccattt 428

<210> 8744  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 8744

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aaaatgccct taaatacaag tctaaaatcg tatactacta gaatgaccaa aatacaagac 120  
ccaaaagaac gaaaaaccta ttctaatttt tacaagaag agtggaccca accttgcccc 180  
atgggctcag aaattttacc tgaggtccat gagaacccta tgaccttctt tagcagctct 240  
agcccaatct tcttgagtc ttctatccaa tacccttggt ggtaggattg cacttgatga 300  
cccttctctc ttctctaact aaattctcaa atggcggtgt tgggttggtt agttttcccc 360  
cctcggacc 369

<210> 8745  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
  
 <400> 8745  
  
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 tacacctgtt gcaagagttt gtggtctatg ttcttctgcg gatcaccata cagatctttg 120  
 tccttctttg cagcaatctg gagtcaataa gcaacctgaa gcttatgttg caaacattta 180  
 taatagacct cctcagcagc aaaaccaaca atagcagaat aattatgacc tttcaagcaa 240  
 caaatacaat ccaggttgga ggaatcatcc aaatctgaga tggacaagtc ctccacaaca 300  
 acaacagtct gtccctcctt tctagaatgt tgttggtcca agcaagccat atgttcctcc 360  
 tccaatgcag caacaacagc agcagtcaca acaagacaa ccagcaactg 410

<210> 8746  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
  
 <400> 8746  
  
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 catacaagtc cctaataatta tcaaataccta aaatttgagc tcctagggag taaaacaatg 120  
 tgtgtctcct agagagggca tcagctacca catttggttc tccctttttg tatttgataa 180  
 catatggaaa ttgctctagg tactctaccc attttgcatg cctcttggtt aacttgcttt 240  
 gccctctaata gtacttaagt gattgatgat cactatgaat gacaaattcc ttggaaacaa 300  
 ggtaatgttc ccaagtttgg agggctctta ttaaggcata aagctcttta tcataagtgg 360  
 ggtag 365

<210> 8747  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8747  
  
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ctaagttttc atttccattg tttaaacgaa acacttgcaa ccaaaaaacat gaagatgcga 120  
gatgtttggt ttcctatcaa tgaacagttc atatggagtt ttcttttaaaa tgggtcttat 180  
taaagcccta ttcattgatat agcatgtagt attaacggat ttagcccaaa aatatttttg 240  
aagaggagta tcatttaata aggttctagc aatttcttcc aaagacctat ttttcctttc 300  
aacaactcta ttttggtgag gggttctagg tgcagaaaag ttatgttcaa tgccatgctt 360  
atcaccaaat aaatcaaatt ctttattttc aaactcaccc 400

<210> 8748

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8748

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ttagctatca ctttgtacat gcagcctatc aaggatattg gtctataatc atttagggac 180  
tgaggatggt taactttggg gataagagcc aagaaagagg cattgctgcc tctagggaaa 240  
caaccgttga catggaactc atccacaaat cttctgaact ctgggttttag cacactccag 300  
aattccttaa taaaattgaa attaaaaccg tccggcccag ggcacttacc tccaccacaa 360  
ctccacactg ctctcttaag ctctgtgtct gagaaagg 399

<210> 8749

<211> 245

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8749

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atatcaagac gctcgaaatg aataatggaa gctctcgagc agttccaatg gtcttaacat 120  
ttaactcaga gggccgattg aagcacatag tatattgaga ctctccacaa tgagcagcgg 180  
aggctctcaa ggaaaggaaa taggcataac atgtaactcg gaggtcgaat tgagacgcat 240  
aatat 245

<210> 8750  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 8750

tcaacattca aattcgagcg tctcggtata ttatatgact cagtcagaca ttcgagaaaa 60  
 aagttattga cgtttgaatt tgctcagagc ttcaacattc aatttcgagc gtgtcgctat 120  
 attacgggac tatatcagac atccgagtaa aaagttattg tcgtttgaat ttgtcagag 180  
 cttcaacatt caatttcgag cgtgtcgata tattacggga ctcaatcaga catccgagta 240  
 aaatgttatt gtcgtttgaa tttgtcaga gcttcaacat tcaagttcga gcgtctcggt 300  
 atattatacg actcaattag acatccgagt aaaaagttat tgtcatttga atttgctctg 360  
 agcttcaaca ttcaatttcg agcgtgtcga tatattacgg gactcaa 407

<210> 8751  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8751

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 ttactcggat gattgattga gtcccgtaat ataacaagac gctcaaaatt gaatgttgaa 180  
 gctatgagcc aattcaaag acaataactt tttactcgga tgtctgattg agtcccga 240  
 tatatcgaga cgctcgaaat tgaatgttga acctctgagc caattcaaac gacaataact 300  
 ttttactcgg atgtctgatt gagtcccgtata atatatcgag acgctcgaaa ttgaatgttg 360  
 aagcttttagg caaattcaaa cgacaa 386

<210> 8752  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 8752

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 ttcaatttcg agcttctcga tatgtgattt gcttgaatcg gacatacgtg tgaaaagtta 120  
 taccaattga atttctaaag agcttccggtt gttcaatttt gagcgtttcg atatgttatt 180  
 tgccctgaatt cgacattcgt gtgaaaagct attaccattg gaatttttct agagctgccg 240  
 ttgggtttatt tcgagcctct ctatatatta tgcgaccgaa ttggatcttc gtgtgaatag 300  
 atctgggtctt tagaattttg tgagagtttc ctttgttta 339

<210> 8753  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8753

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 ctattttcag attgggaatg cctctaacag cacctttgtc aatgatnttc ttcatgcctc 120  
 ttaagtgcag atgtccaaat ctttcatgcc atattttgac ttcattcttct ttggagaata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
 tgctgccctt cattaggact tcactcttct catttgtcac caagcattct gactttgtga 300  
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360  
 ccttcaccag cagtactatg ttcagactag gaagtcacac atggac 406

<210> 8754  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <400> 8754

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 cctattttta atagagaggg ttaccactat tggaaaatcc aaatgcaaat cttcattgag 120  
 gcaatagact taaacatttg ggaagccata gaagtaggac cttatgtacc caccatgggtg 180  
 gctggaaatg caacaataga aaaacctaga gaagagtggga ctgaagatga aagaagatta 240  
 gtgcagtaca atttaaaggc taaaaacatc attacttctg ccctaggaat ggatgaatat 300  
 tttaggggttt caaattgtaa gagtgtctag gatatgtagg acactctaca agttacacat 360

gagggaaaaa ctgatgtaaa acgatctagg ataaatac

398

<210> 8755

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8755

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acgagacatc ttgccaaaca aagtcagggt agccataact cgctgtgct ttttcttaca 120

tgctatatgt tgcaaagtca ttgatcctgt caagtatgat gagctggaaa atgaggccgc 180

aattatattg tgccagtagg agatgtatct tccccctgct ttctttgaca tcatgaatca 240

cttgattgtg catttggtca gagaaatcaa atgctgttgt actgattatc tacggtggat 300

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agaagcatct attattga 378

<210> 8756

<211> 415

<212> DNA

<213> Glycine max

<400> 8756

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acaagtttct caagctgcc aatctcattga acaccttcca agcaacatca atcttaccac 120

attttgcata catctccaac acagcattgc tcacatataa attcttaaag aaccattct 180

tccttgcgta tgcttcaacc ctctgccaa tctccagtgc tccaagattt gcaaaagctg 240

gaaaaatgct tgccaagggt actgcattgg gcatcatccc tttctcctgc tccatcctca 300

ggaacaaccc caaagcctcc ccgtactttt tgctccgcga gtaacctgat atcatggtgg 360

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<210> 8757

<211> 395

<212> DNA

<213> Glycine max



<223> unsure at all n locations  
<400> 8757

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tccttctttg cagcaatcta gagtcaatga gcaacctgaa gcttatgctg caaacattta 180  
taatagacct cctcagcagc aaaaccaaca atagcagaat aattatgacc ctntcagcaa 240  
tagatacaat ccaggttgga ggaatcatcc aaatctgaga tggacaagtc ctccacaaca 300  
acaacaacct gtccctcctt tccagaatgt tgctgggtcca agcaagccat atgttcctcc 360  
tccaatacag cagtagcaac aatagcaaca acaaa 395

<210> 8758  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8758

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cctcccattt ttaatgagtg ggttaccact actggaaaac ccgcatgcaa atctttatag 120  
aggcaataga tttaaattatt tgggaagcca tagaacaagg accttatgtt ccctctatag 180  
tggctggaag tgcaacaata gaaaaacct gagcagattg gactgaggaa gaaagaagat 240  
tagtacaata tattttaaagg ccaaaaatat tattacatct gccctaggaa tagatgaata 300  
ctttagggtt tcaaattgta aaagtgctaa ggatatatgg gatacactac aagtaacaca 360  
tgaaggcaca acagatgtta aaagatctag gat 393

<210> 8759  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8759

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aaaactgaat tagagacatg agttacaaga tttgctacca ctttcttaac tttgcaaaga 120  
ttgcataagc aaaaggccaa tcttanaagg atgtttaatt cagatgaatg gttgaagtct 180

aaggcagcta aagagcccaa ggggaagcaa gcaacagatg ttgttcttat gccatcattt 240  
 tggaatgatg ttgtttatgc tttaaaggct atggggcctc ttgtaagtgt gttgagggtg 300  
 gtggataatg aacaaaaacc tacaatgggt ttcgtttatg aagcattgga tagggccaaa 360  
 gaagcaattc 370

<210> 8760  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8760

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 gactatgggc attcattttc ttggcgctta aactgctgag aggtgggagg cccatctttc 120  
 tcaaataaaa tttctggctt cagcangagt catgtctcca agggctccac cactggcagc 180  
 atctatcata cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg 240  
 ttctgaaatc tgatggtggg ggcaactggc acatagtttc ttaaactctc cccagtactc 300  
 atacaggctc tctccactga gttgtctaac acctgagata tccttcctga tggctgtggt 360  
 cctggaagca gggaaatttt tttctaagaa tactctctta aggtcatccc agc 413

<210> 8761  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 8761

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 catcagtggg ctttccttct gtgtccagca tcttgggatg ttcccagcct ttgatgacag 120  
 ctttcagggt tctgctatcc agtgatttga ggaaggccac catccttgct ttccagtatt 180  
 catagtgggt tccatctagg attggtggtc tgttactggg tcctccttct ttctccatgt 240  
 tcatcagaat ttatctccct agatctcact ctgtgatttc gagtgttagc tctgatacca 300  
 attgaaattc tgataccagg ggacagatgt cgtaccggat gtcacgacat cagcgttcag 360  
 aacatgcaga ttagatgcgt ccgtatgaac agattaaaca ag 402

<210> 8762  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8762

gctttgtgac cttctctatt aagatatata tttcttatca tattctgcaa atcctcatca 60  
 gaggacacag aaaccaaagc atcaagatct tccccaggaa gctgatactt gattgcatga 120  
 acctgattat atatttgtaa tgctttctgc atgagctcct gccaaagatat gtccttttctt 180  
 attcgaagaa tgcgtgtttg gcctccaaca taccttagct ttccatcaca tggctgtggc 240  
 aatattctac caccaaagct gcaaagaaac ttcatcatca ttgatctatc ataaactcca 300  
 aaagagccat agccaggcac anattgtcta ttgtcctgat tcaatgaagt tcttggcatt 360  
 gatcgaatcg acccatagtt gcttctgtct ncaggtaatg atgtattcat tcta 414

<210> 8763  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 8763

agcttgcaaa gccctgatgg attgtattat ctataagagc ttggtatgaa agactaagtt 60  
 tattcttact ctagatagta ctctagagaa atagtggaca cttcactatt cagaaaggct 120  
 tagaaaaagg atctgctgat tatacatata tatgtgaatg acatcatttt ttatgtaacc 180  
 tctgaaagga tgagcaagga gttttctgag ctaatgaaaa gagaatgtaa aatgagcttg 240  
 atgggtaagt tgaagttctt tataggactt caaatcatto aaaaagatta tggaattttc 300  
 atgcataaag agaaatacat caaggaccta ttgaaaaggc tcataatgga tgaagcgaca 360  
 caaatggcta ccggtgcac cttccactat cat 393

<210> 8764  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8764

agcttgntgt ttttagctng acacttttta ttactatatt ttattttcta tatttttctt 60  
ccatcttatt ctttcttgct cgctctcttt ttgctccttt ttttccatga gatattttgc 120  
tacctaaaca tacgtatatt tttgtgaggt attttgctat atacatgcgt gtccaaggta 180  
tcttgctacc taaacataca tatatatggt ttgtgagata tttttgctat atacatgcat 240  
atccaaggta tcttgctacc taaacataca tatatatatt ttgtgaagta tttttcctac 300  
atacatgcat atccaaggta tctttctacc taaacataca tatatatatt gtgaggatg 360  
actaccttcc gagctt 376

<210> 8765

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8765

agcttagctc agacactgct taattttttt ggattcagac actggtgact gaactcaaag 60  
ttcccccttct gcaactcccat gtcttctgtg ataactacag tgcagttgtc attgcccaca 120  
accagttct tcatgcaaga acaaagcata tgaaaattga tgtttttttt gttcgggaga 180  
aggttttgac caagcagctc attgttcac atgttctctgc tcttgatgaa tggcagatgc 240  
actaccaag ccaactctatc caccaagatt tattttttcca agagccaaac tcaatgtgct 300  
tgaggcttca tcaaagtctc aaccaccttg agtttgaggg ggggtattan agcattgtca 360  
gagcggtgca gcttaactac actctt 386

<210> 8766

<211> 402

<212> DNA

<213> Glycine max

<400> 8766

ttatgatact gatgaaattc ggtcttatgg ttacaaaaa tcatagttgt tgttaggcgg 60  
ttatcgttat caaaattcta gaatgctttg taaagatggt catcagggtcc aagtctgtgc 120  
ctatgcattg tagtcgaaat gaattcaaga tagtcaattg acccatttcc gtcaacatca 180  
gcctgaggaa aaaatataca tgtcttgcaa attgaaacaa ttaggaacaa agcaaaaatg 240  
catgacaaca aaaaaaagta taaagatata ggaaatatca tagtttaatc acaacattaa 300

aaaaggcttt agctagagcc tacataataa taattataat aataataata ataacaacga 360  
 agcatacatg cattacaaca aaacaaaatt aagaaataat aa 402

<210> 8767  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 8767

cgtaatctct ataaggctc aaacaatctc caaggcgtgg ttgacaggc taacaatagt 60  
 tgtcaagcaa gatggttttg ctcaatgcc aacaaacct actatgtttg ttaagcattc 120  
 tctggatgga aagatagctt tgtttattgt ttatgtagat gatatacataa ttctaggaga 180  
 cgattatgat caaataaatc atctgaagaa tcttctagcc gaggaatttg aagtcaagga 240  
 tctatgccag ctcaagtatt ttctagggat ggaaattgct cggataaaga atgggtatttt 300  
 tgtttctcaa agaaagtaca ctctagattt acttcaagaa acgggggatgc ttggatgc 358

<210> 8768  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8768

tatgggaagg cccatttgcc tgagaaagct gtggacttgt ttcacagaat gtgggggtgag 60  
 tntcagtgca aacaaaccgt gaaatcattc aattctgttc tcaatgtgat tgttcaagag 120  
 ggtcttttca atcgtgcatt ggagttttac aatcatgttg ttgcatccaa gagtttgaac 180  
 attcacccta atgcactcac ttttaatttg gtcattaagg ccatgtgtac gcttgggttg 240  
 gttgataaag caattgaggt ttttagagag attccactca cgaattgtgc tccggataat 300  
 tatacctatt cgacattgat gcatgggttg tg 332

<210> 8769  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 8769

tttctctaac tactcatggt ataaaaataag ttccaataaa tctgtaaatc acctgttcca 60  
aatatatcat tggaaccggt gctttaatta acaaggaaat ccaagtttga caaaagtcgt 120  
ttcaaataa ttttaataaca gaaaaatcat aaactatata aatattatac gcgtgaatat 180  
catattataa taactatcat attgtacgaa taaaaaacat ggtaggttgt tgaaaaaaca 240  
aacatcagat acatatttaa atattttcta tcaatatcaa tcacgagaca aatctcatcc 300  
gttaaacata tcatataaaa tacttaacca cacattgaac aattatgttt atatacatca 360

<210> 8770  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 8770

acactataaa actcagcttt tatccaggca attcttggtg gtgaagctcc ttcttccttg 60  
gcttattccc tagtggatgg tgcctccctt atcctcttct cctttgcctt tcgctgcac 120  
tccatggtga aaaatcacca ttgaaggacc tcattgaagc tcaaagatcc agcctccata 180  
gaagctccac aagcaagctt ccatcaagtt atgctcgaga tcttccgtgg ttcaatttcg 240  
ggcgtctcca tatgtgatgt gcttgaatcg gacctcgtg tgaaaagata tgaccatttg 300  
aatttctcga gatcttccgt ggttcaattt cgggcgcctc catatgtgat gtgcttgaat 360  
cggacatctg agtgaaaagt aatgacaatc tcaattactc gagagcttct gtggttcaat 420  
cttcaagcgc tcgatatatt atg 443

<210> 8771  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8771

acattcacca caaattctgc cttcttctat ttccagattg ggaatgcctc taacagcacc 60  
tttgtcaatg attttcttca tgcctcttaa gtgcagatgt ccaaattctt gatgccatat 120  
tctgacttca tcttctctgg agaatagaca tgtggaggag taactggttt cttgaggtgt 180  
ccataggtaa cagttgtcct ttgatctgct gcccttcatt aggacttcac tcttctcatt 240  
cgtcaccaag cattctgacc ttgtgaagct tacattgaat ccttcatcac acagntgact 300

gatgctgata aagtttgcag tcagtcctt caccagcagt actt 344

<210> 8772

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8772

tgttgttctc gctaagtcta tgcctcgcgc taagtgttg agacgtgcta agcacgcccc 60  
ttcatcaaat ttccaatgtg ctcttttggg ctttacttta ctcatataac atcataaatt 120  
catcaacttt taatatttta gacacaaaaa cttaaagat gttaaaataa tagttatttg 180  
caccaaaagg aagaaatatg agaaaaaaa ttaccaatat ctatataatt taatcacaga 240  
acatacctat aaatagtcgt tacagttaca agtattaaat taattgttta taccaatata 300  
tttttatgta taaagtatcc ttaacagata cataaactta ttatatact caatcaatat 360  
catataatac aaaggtacaa ataagaaaat cctaacatat gtacaanaaa gggatgaaaa 420  
attaaattt 429

<210> 8773

<211> 324

<212> DNA

<213> Glycine max

<400> 8773

tataatttaa tttaagacaa aaactaatta catgctattt gttaagtatt ttgtggattg 60  
tcgtgagtac caattttctc ttgtaataaa attcagtata acttaacaaa aagaaactgt 120  
cattttaatt ataaaaacaa taagaaaaat attaccataa ttttaaaagt cccgtcattt 180  
aaatttacta acatacaaag tagcatggga ataacaattt ttcgttacta tatttattag 240  
taatttattg attcttaata atcttaaaaag aactttattt ggatttttag attattttat 300  
actttatggt aaataagaaa aata 324

<210> 8774

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 8774

ntgtcgattg tgagagagtc tgagaatcca cttccgaatc caaacccctaa actacaacag 60  
ccccagggtt tgcaagtcag cataaaaaatg gaaggataaa tcataaatgg aaacaaaaaa 120  
tagtttacat ggaaacataa agtataaatc aaatatgcaa ataacaaaat acatgttaag 180  
taaacactat tagaaaatac actttcaaca tcggttattt agaacattct acattgggtc 240  
taaaattgat gttgaaagtg acgatgttga atgtatgaat gttaacatcg gttttggaga 300  
accgatgtta acatacatat gacaacatcg gttccctaaa taaccgatgt taaacacaat 360  
gaacaacagc aaanaaagtg tacgaatgat gaacgttgac atcagttttc cactaaanac 420  
cgatgtaata tgttagtta acat 444

<210> 8775  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 8775  
ttggtagag ctcgagaag gcctcacctt agcaccataa gtggtacaac aaaccactga 60  
gaaagttaag ttaattcagg aaaggatgag agctgctcag agtaggcaga aaagttatca 120  
tgataagagg aggaaagatt tggaattcga ggttggtgat cacgtattct tgagagtcac 180  
tccatggact ggggttggtcg agcattgaaa tcccgaaaac tcacatctcg ctttattggt 240  
cctttccaaa ttcttaaaaa agttggccct gtggcataacc aaattgcact acccccgctc 300  
tttttaatct tcacaatgtc tttctgtgtc tcaacttcgt aagtatattc atga 354

<210> 8776  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8776

cgtgggagtt tgtgatagtg attntgccac agatgttgat gatagaaaaa gtactaccgg 60  
atttgatatt ttatgggtg attgtgtttt tacatggagt tctaagaagc aaggcattgt 120  
gacactttct acttggaag ccgagtatgt agctacaact tcttgcatat gtcatgccat 180



ttggctaaga agattgttgg aggaacttct gttgttgcaa aaggaaagca caaagatcta 240  
 tgttgataat agatctgtac aagagcatgc ctagaatccg gtgttccatg aacaaagtaa 300  
 gcatatagat acaaggtatc atttcattag agagtgcatt accaagaaaag aagtagaatt 360  
 gactcatgtg aaaactcaag atcaagttac ggatattttc a 401

<210> 8777  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 8777

taagtgcctt cttggcaggg aaatagaaaa aacgaaaaga gaacaacaac tacatcatca 60  
 ttctttaaaa ttaaaccctg gttgtttata gagctgctct tgcaaaggcc tcacatgatt 120  
 gtggtaaaca tgtgcatccc caataacatg gataagatca cttggaatga gatctgacaa 180  
 gaaaaacaca tagtataaaa attgattatt ttatgtttta attgttttta atgatgtatt 240  
 ttctctagtc atattatcaa aatcaacaca cttttgaacc ctgaatctac ctagactaga 300  
 acttaaatta aaaacttatt cataaacttc tgaaaacaac tctacccaaa aatctataaa 360  
 aataattg 368

<210> 8778  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8778

ggaaggtgtg taccacacca tttnttcata gtaaaacact ggtaatgtgt ctactattat 60  
 tgtgatcatc tccttctccg tcattggagg taacacttga gctgccaggt ctctccacct 120  
 ttgggtgtat tctttgaaag atttgtgcc ttttttacct atgttttata gttgcatcct 180  
 atccggagcc atatgagaat tgtattgata ctgcctaaca aaggcaacca ttaggttctt 240  
 ccaagaatgg aatcggaag gttccaagtt agtgtaccag gtgacagcta cccagtaag 300  
 actttcttgg aagaaatgta tcagtagttt ctcatnttt gcatatgctt ccgacaatac 360  
 atcttttagat gggtcttggg gcaagtagtc ctcttgtagt tgtcaaagtc tggcaccttg 420  
 aacttgggag gggtgacgat attgcgtact a 451

<210> 8779  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8779

tgtatggntg ctggctagct tgatatactc ggcatatcac acggccattg actatatact 60  
 cccactcagc tcgtgggttc acaatcgtgc actgcatttg accagaacca tatgatgtgc 120  
 gacttggcga acccgtgatc cattgacagc gatgctagtt tctcaccata gatggactta 180  
 ttaccttac aaacataga ctttgtatca cctgcagcaa agttttctgg ctgcatcata 240  
 taaatagttt cttctgtgtc gccagataga cattgacgtt taagattcat ttgatgtaac 300  
 tatacaatat aatgagcta 319

<210> 8780  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 8780

atccactggt aacagcgatg ccctacgctt tggttatggc atcatcacct cagaatttcc 60  
 catcattgaa tttgaaagtg aagttgttga cgtgtatcct ttgcatggac ctatccactt 120  
 agagtgcacg tacttgtgct tcctccatgg tcccatgtgc attttgtttt ccttcatgca 180  
 cctttatgct tccatgcaca acaccttgat gatgttgctt aatctctcta ttgtcccccac 240  
 ata 243

<210> 8781  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 8781

tgcaaaaacc acccagcaca caggacacga cagtgttaagt gaaacacaaa ggaagcgtaa 60  
 aactggaagg cgtagtaaat ttaaagaaaa acaagatagg ggcaaaattg tcattaaaat 120  
 tttatgaaaa ccgaagcttg cattaaatat ttttttaatt cggattatta ttataaaatt 180

taatgcatat ttaattcacg ttgttataaa ataaataata tttatttaatt attattaaat 240  
 tttttaatac aaataaaatg ttgtcataaa aaatattttt tattttttaa aaaatatata 300  
 gattacataa gtaaataattt attattcaaa ttacatgcg cattaaatat gtattagaaa 360  
 tgtagtgat aattatgtat aataataatt tatgtatact aatattattt attttataat 420  
 ataattgatt cattagttta g 441

<210> 8782  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8782

tcttctagac tcattttctc cttgaagtgg cgtctccaat catctttctt ccttctccat 60  
 tctgctgcca tgatcttcaa gaagcaaaag acttcattga tgaagaagat ccatgaccta 120  
 caagctccac atggagctac atcatttttc cccctttcta taaaggtttt gtctaattgc 180  
 acttggtacc tggaagaagt tacatttgga ttgtaggatt cttttggcat gttcaaaagg 240  
 ggaaaaaaat tattttgatt ntgatgtttc tagtgagttc tatggtaatg gagccctaaa 300  
 tcttatcttt gtggcgaggg ggtggagctg gattgttgaa ta 342

<210> 8783  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8783

tccccgactt caccocaaag gtgcatttgg ttgggtttac ttttaattgg tatttccgca 60  
 accttcaaaa cagcttacgc agattgacaa ggtgttcagc ctcaatccga gacttggcaa 120  
 tcatgtcatc tacgtagacc tctatttcca tttttcccaa cacacactta tgggtcacac 180  
 aaaagtttct tcatatacac tcgttactca cacacacaag aattcctttc cacgcatcat 240  
 ttacacacat aaaaaccttc tatacacatt ttctttttac atacatgtat aaataaaaaac 300  
 ctttttcttt tctttatgaa catgactttt attcacaacg cttctttctt tttattagga 360  
 tttttggttc attntatttt taggacgacg ttcttaaagt aaaaactcta cacgggtccg 420

gaatttcaac aaacactatt gacaacaatg

450

<210> 8784

<211> 355

<212> DNA

<213> Glycine max

<400> 8784

tcacgcttag ttggagtctg caaagcccca atcattcaac actttgctga aacaatttct 60

ggtactacaa ctattagaag ctttgatcag cagtcaagat ttcaggaaac aaatatgaaa 120

ctgactgatg gatattctcg gccaatgttc aatattgctg gtgccgtgga atggttgtgt 180

ttccgtttgg atatgttgtc ttctatcaca ttgacctttt ccttaatat cttaatatct 240

attccacagg gattcataga tccaggtgag ttattcctat ctgttacaaa tcaaaattta 300

attcttttat ggtatatgga attaaacata ataagttctc ttttataact ttttt 355

<210> 8785

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8785

ntatgaacat atcagcagga ttgtgtagag tgctaactctt atgaactctg attcttcttt 60

ctaaccgaat gaagtgatat ctaacatcta tatgcttggt tctatcatga tgaacttgat 120

ccttggccaa gcatatagca ctaaggctgt cacagtagat gttagcatat tcttgattaa 180

ttccgagatc atttatcaga cctctaagcc aaattccttc ctttgcagct ttagtaagag 240

ccatatattt agcctcagta gttgagagag caaccgaagg ttgaagtgtt accttccaac 300

tcaccaagca gccaccaagg gtgtaagcat accct 335

<210> 8786

<211> 359

<212> DNA

<213> Glycine max

<400> 8786

tgtatacccc atgttgcatt tgcttacaat agagttgctc atagcaccac taattgttct 60

cctttcgaac tcggttatcg ctttaaccca ctaactactc ttgatcattt gactatgcct 120

aatgtttctg tttttaagct taaagaatgt caagcaaagg cggactatgt taaaaaactc 180  
 tatgagagag tcacagatca aattgatacg aataataaaa gctatgctac actagccacc 240  
 agaggggagaa agaaagttga ctttgaaccc agacattgag attgggtgca catgagaaaa 300  
 gaaaggttct cttaacaaac gaaattaaag cttctaccaa ggggagatgg accatttta 359

<210> 8787  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 8787

taacaaaagg catgcgaagt ggggtgaatt cctagagcaa ttcccttatg ttatcaaaca 60  
 taaaaagggga aaaggttaata ttgtagccga tgctctttct cggcgatcatg cattactttc 120  
 tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttgga gaaatcttaa aaaatggtga aaa 213

<210> 8788  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 8788

gactcaatcg gacatccgag taaaaagtta ttgttggttg aatttggtca gagcttcaac 60  
 attcaatttc gagattttcg atatattacg ggactcaatc agacatccga gtaaaaagtt 120  
 attctcgttt gaatttgctc agggcttcgg tattcaattt cgagcgtctc gatatattac 180  
 gggactcgat cagacatccg agtaaaaaat tattgtcggg tgaatttgct caaagcttca 240  
 acattcaatt tcaagcgggt cgatatatta cgggactcat tcggacattc gagtaaaaag 300  
 ctattgttgt ttgaatttgg tcagagcttt ggtattccat ttcgag 346

<210> 8789  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 8789

catgcactcc tetaatgaca atagcatcat gtttggcact aaattgctag gagttggaag 60

ccatcttctc aattaaattc ctggcttcaa caaggggtcat gtctccaagg gctccaccac 120  
tagcaacatc tatcatgctt ctctccatgt tactgagtcc ttcataaaaa tattggagaa 180  
gaaactgctc caaaatctgg tggtgagggc aactggcaca taatttttta aatctctccc 240  
aatattcata taggctctct ccactgagtt tctaagtct tgacatatcc tttttgatgg 300  
tcgcggtcct ggaagcaggg aaaacatttt ctaagaatac tctct 345

<210> 8790  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 8790

caactttgcc aagagccagc tgggagcaat tgggtcaatct gatcagtgga tcagatctgc 60  
tgctgatctc ctaaattgtg gtcccctgca gcttcctttc tgctacctag ggctgcctat 120  
aggtgtcaat ccgagaagga agatggtgtg ggaacctatc atcaacaaat ttgaggctag 180  
actgaacaaa tggaggcaga gaagcatatc catggctggg agaatcacc taattaatgc 240  
tgtcctaaca gctctgccat tgttttacat gtcttttttc aggactcctt caacagtgat 300  
caacaaactc atctccattc aaagaaaagt tctttggggg gataatcaag aaaggaggaa 360  
gat 363

<210> 8791  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 8791

aatctcagct tcacatcaga ccacttcag ggtgctggaa ctacttcaca tggacttgat 60  
ggggcctatg caagttgaaa gccttgagg aaagaggat gcctatgttg ttgtggatga 120  
tttctccaga tttaactgtg tcaactttat cagagagaaa tcagacacct ttgaagtatt 180  
caaggagttg agtetaacac ttcaaagaga aaaagactgt gtcatacaaga gaatcacgag 240  
tgaccatggc agagatgttg aaaacagcaa gtttactgaa ttctgcacat ctgaaggcat 300  
cactcatgag ttctctgcag ccatcacacc acaacaaaat ggcatatttg aaaggaataa 360  
caggactttg caagaagctg ctaggggtcat gctccatgcc aaagaactct cctataatct 420

ttgggctgaa gccatgaaca cagcatgc 448

<210> 8792  
<211> 454  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8792

ntacaacaaa tgccactnta ctccaagttt taaaaggata tgttaacaag gacacacaag 60  
tatattcacc aggaaaacat tgttgtggaa ggaaattgta gtgttgtgat tcaaaagatc 120  
cttccaccca agcataaaga ccctgtgagt gtaaccattc cttgttcaat tggagaagtc 180  
actatggaaa ggcacttatt gatctgggag ctagtattac cataatgcca ctctccatgt 240  
gcagaagggtt gggagagttg gagatcatgc ccactaggat gactntacaa cttgttgacc 300  
gctctattac cagaccatat ggagtaactg aagatgtgct ggtcagagta aaatatttta 360  
tcttcctggc agactttgtg gtaatggata tctgtgaaga taatgacatt catgtaatat 420  
tggggaaggcc attcatgtta actgcaagct gcat 454

<210> 8793  
<211> 347  
<212> DNA  
<213> Glycine max  
  
<400> 8793

cactggctga catgttctca attagctcag ttgcttcttt cgggggtcttc aattttatct 60  
ttccccctgc agaagcatct aacagttgct tggtttgagg tctcagccca tctataaaca 120  
tattcaattg gattggctcg gaaaacccat gagtaggagt tcttctcaac aagcctctga 180  
atctctccaa tgcttcactc agagattcat caggaaactg atgaaatgaa gagattgcag 240  
ctttcccttc tgcagtcttg gactctggaa agtatttctt taggaacttt tcaacaactt 300  
cttcccaggt ttttagacta ttgcccttga atgagtggag ccacccc 347

<210> 8794  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 8794

aagtggcctc atatatctta agaaggaggg gttgaattac aaactatttc cccaattaaa 60  
aattctactt tgattttaat gcaagttcca atttccctta aaaatgaatt tctaaatgat 120  
gattcaaatt aaacaatctg aatgtaaag ttaagcaaca ataaataata tagtttaagg 180  
gaagagaaag tgcaaacaca gttttttatac tggttcgaca aagtccgttg actatgtcca 240  
gtccccaaga aaccgcgttg ggagtttcac tatctcaca atcctttaca ccttctaaaa 300  
cacacaagga aaacccttcc tttatgttca aatgctttac 340

<210> 8795

<211> 318

<212> DNA

<213> Glycine max

<400> 8795

gcatcagtc cgctaactgt tgcagcatct gagtgccacg cttcgggaaa cgcctcatca 60  
gcttgtgtac ccatccaaac agccagcatt agctccccct tcgctttgtc accctttctg 120  
tcttccagcc tataccactg cggtgccaaa ggactgtccg gtggaacacg cttcggggatc 180  
tcattgaggt caaacaagac acgaccaatg aagtcacctc tcacgacatc cttgtccttc 240  
acagtgactt ccagtatgga agcctgaatg cggctcttgg agaaagcaaa aacctgattc 300  
cattcaggat tacacttc 318

<210> 8796

<211> 312

<212> DNA

<213> Glycine max

<400> 8796

tcattcactt accaaatcat caaatgtacc atgagagttc atagcatata gatgtgaaac 60  
tacacttcat cagagatgtg attgaatctg acaagggtgaa cgtggagaaa gttctaacag 120  
aaaaaaaccc cgctgatatg ttcataaagt ccctctctag tgtcaagttc aagcactgcc 180  
tggacttgat aaattttgaa ggtgtctaaa gcagattggt agaagagcag cccaaaaaca 240  
caaagtagac actcgcttat ttaaattcaa ggcggagatt tgtggtgtgt gaactcaa 300  
cacaattgac ac 312



<210> 8797  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 8797

gttcaacacc tatcataaat aattgactta actattattg gattgtgaaa aagcttggat 60  
 aaatatcaaa ttaaaatatt ttttaatgaa ttgaatttta aaattattat atataatctt 120  
 aacacgtcct tgtttcaatt taactttaaa ttttgatata ccatatgaat aaagattatg 180  
 tgtcccaatt taaatatttt ttttatagtt ttctcctcat gtttaaaagt attatcgtaa 240  
 atttatttat atctactaaa ataaaatact caccattaac caggaaaata tctaataatta 300  
 cgaagtctta tttttaaaaa ttatatatgt gtgtaatttt acacaattaa ttattgata 359

<210> 8798  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8798

aaacctttgc taattcaatt aggaattccc ttcctaatat tctagtgatc atcttgatgt 60  
 tgtgacttgt aatcttgaag tattgtcttg aattttaatc ttgaaaagcc catttgcatc 120  
 aattgcaaca catcatcatg atcatcatca aaacatcaaa gccaatgca tctacacatg 180  
 tgtcctccac cttagagatt ggagctatgt ttcacgattg cctaagtgcg gaccctcaaa 240  
 gcaatccgcc attcttcctt ttttttctcg agaccocatga atgtatngcc taacgctatt 300  
 catgtgccct ccaccttcaa gggtggagct atgtttcatg a 341

<210> 8799  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8799

gcttctaaga aaaacttctt gagaagctnt ctttaaaaaa cttgcttgag atgctagagc 60  
 taagctacac acacncatct aataactaag ctcacctcct tgagaagctt ncttgagaag 120

ctagagctta gctacacaca cccatctaata aactaagctc acctctntga caaaatacat 180  
gaaaatacaa aataaaagtc tgcactacaa agactactca naatgccctg aaatacaatg 240  
ctaanaccct atgctactag aatggcacaa atacaaggcc caaacgaag agaaacctat 300  
tctaataattt acaaagataa gcaggtcat atntagccca tgggctcgag atctacccta 360  
aggctcatga gaaccctang gtcttncctt ggatctctga cccaatctac ttggagtctt 420  
cta 423

<210> 8800  
<211> 316  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8800

tctgacattc accacagatt ctgccttctt ctattttcag atngngaag cctctaacag 60  
aacctttgtc aatgattntc ttcattgcctc ttaagtgcag atgtccaaat ctttgatggc 120  
catatttgac ttcattcttct ttggagaata gacatgtgga ggagtgactg gtttcttgag 180  
gtgtccatan gtaacagttg tcctttgatc tgcctgccctt cattagaact tcactcttct 240  
catttgtcac caagcattct gactntgtga agttacattg aatccttcat cacacaactg 300  
actgatgctg atcaag 316

<210> 8801  
<211> 322  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8801

cgagacgctn ganattgaac aacggaagct ctgcagaaat tcanatggc attaactttc 60  
acatggatgt ccaattcaag tgcataatat ttngagatgc tctaaatnta acatggaagc 120  
acaagggaaa ttaanacggc cataaccttt aacaaggatg tccgattcag gccataata 180  
tattgagacg ctcgatattg aacacttatg ctctcaagag aatcanattg tcatacattn 240  
tcactcggat gtccgattca gacgcataat ataccaacat gctcgaaata aacatacagc 300  
gcaagcanat tcaacggtat ac 322

<210> 8802  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8802

tgacatctat ccccatatgg aanaaggcca atgtgcggac atgacattca gaggatgtgg 60  
 cggaacattg acattgtccg cgtatgctng acatntatgg catntcctta catgggcgca 120  
 gcaatcgctn tccatagtga gccagtaata acctgctcta aggatcttcc tggccatagc 180  
 atgcccattg gcatgtgtcc tcaatgaacc cccgtggatt ccttcaatca tgtagtctgc 240  
 ctctttggca tctacgcacg gcatgaaggt catgtcgtgg tttcgtttgt acaggatggg 300  
 accactcaca nagataccag tagccaatct tctttaacgt tctttctcat tgtcganaat 360  
 ccctggtgga tattctgtgt tctcgatgta ctatntgata tcgaaatacc acggtntccc 420  
 atctcgcttn tctctntca cacaacaatg tgt 453

<210> 8803  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8803

tcaatcctat accattcagg agccaatgga ctattatgtg gaacacgtct aggaacatca 60  
 tggagatcaa acttcacagt gccataact tcatcaagta acatattctt gtctttgacc 120  
 acaacttcaa gcaaagttga ctgctgattn tcccttgcat aggcaaacac tngattccat 180  
 tcaagatctt gtgttttctc agagtgtatg gtaattcctc tgaaattgca acctttacct 240  
 ccacatatgg atcaatgctc ccagtcaaac gagctcttac aa 282

<210> 8804  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8804

taagagctag agctagctac catacctctc taatagctaa tctcacctgc ttgagatgag 60

aaactagagc ttagctacac anccccctata atagctaagc tcaccctcat gaaaaaatac 120  
atgagaatac aaaatagaaa tccctactac aaagactact cataatgcct ggagatacaa 180  
ggctaaaacc ctatactact agaatggcca aaatacaaag ctcaaacgaa tgaataatct 240  
attctaatat gtatatagat aagcgggctc atacttagcc catgggctcg anatctaccc 300  
taaggctcat gagaactcta ngaccttcct ttggatctct ggccagatct acgtggagtc 360  
ttcta 365

<210> 8805  
<211> 300  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8805

acatagactt cttgcttaat aagtccattg aggaacacac attctacatc catttgatac 60  
aacatcatat catgatgggc agcanaggat attaaaatgt gcattgcttc tagacgagca 120  
acatgagcaa tagtttcagt cgaatctata ccttcttggt gtgaataacc cattgccaca 180  
agcctagcat tgtccactca caaccttaca tatttcatcg agcttgtntc tgaacaccca 240  
ctntgctcca tagcatatat gccattggga agatctacaa gcttctagac atcattcttc 300

<210> 8806  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8806

tgagaatgtc ttatccttac nctcggaagc aaagaaaaaa ggagagaagg ataantcca 60  
atcaaaggaa acaaggagag gaaagggaaa tcccaatcaa agagtgcgag aaagcaaaaa 120  
gataagatag aacattccca atcaaagaat gcgagaaaga taaagagaag gagaagaagg 180  
aaggaaagct cctgatcaat gatcgaaaga aaacagaaga aatgtgcaga ggggatctct 240  
ggaccagaca atatctaaac aaatacagaa ttgtcaccaa atgaacaaaa gaaagaaaag 300  
ganaccataa cctataagtg gtcttcttcc ttgtatacca accaanatcc tgtgcg 356

<210> 8807  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 8807

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gtcacctgcg gcatgcaagc ttatttaaca tgccccatat atatttgcaa gcgcttactg 60
ttaaaaaaca acttatatat atagtttcat gttgtgattg atgaccatga tttgggttac 120
aatctaaaaa aataaatgat cttagaatca atcatgcata aatataatta tgaattaaaa 180
ttattacatg atatgcacat taacaaaacc atacataata tgattatagt gatcttattc 240
agttcaagga tatgaagaat atatgtgatt taaacaaaac ataaaaataa aaccatatgt 300
aaaaagaaaa gaaaactttt ttgactgcaa aaaaatgatc ctcaacacat tcagaccgaa 360
taagagaaag cactttgtaa catacaataa caaagaacg tctgcactac cagtaaaaaa 420
taactatcta ttctggttgt tataatatta aataatgtat gacataaca 469
```

<210> 8808  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8808

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aaaattcctt catctgactt agcatcaaat ttctctatgt tttcttttcc attgtttaat 60
acaaaacact tgcaaccaa gacatgaaga tgtgagatgt atggtttcc accattgaac 120
aattcatatg gagttttctt taagatgggc cttattaaag ccctattcat gatgtaacat 180
gcagtattaa cggttcagc ccaaaaatat ttggaagag gaatatcatt cattaagggt 240
ctagcaattt ctccgaaga cctatttttc ctttcaacaa ctctattttg tagaggggtt 300
ctaggtgcan naaaattatg tgcaatgcca tgctattcac aaaataaatc anattcttta 360
ttttcaaact caccctctg atcactccta atagatat 398
```

<210> 8809  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8809

agcttgtgct cacttcncg gccggtagggt gccgtaattg ctatttagct atttttccct 60  
 taacaatcac aaccacaacc atgtgagtgc gtactttgat tgattgaata tgtgggtgtg 120  
 cagtgaggct gagatatacc tgtttggagg ttccattact tcttgaaaag ttcccagtgg 180  
 taaggacctc ctctttgttc gccccgacgc tgttttcaat gggaacaaac cgataagggt 240  
 agcttcttct cttctcttta cttcatatct ttaatcttta attactcttt taagtctctc 300  
 cacctatget gttttcatcc actatgcaaa ccaattcttt ttacgttgt aatttattaa 360  
 ttctggatcc tccagacact gattcanttt atatatttgg gcagtgggtg tgttccgcat 420  
 tgttttccac agtttgggtc tgggtccaatt c 451

<210> 8810  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<400> 8810

agctggagtt gctgcacatg atgtccaacg ttatgtcaaa gaataagatc gggctgcaca 60  
 atgcacaacg caagataaag tgtcaaatga agaattgaag ctgcaggatt cacgatgtcg 120  
 gatacaatgt ccaggacatc ctgcctgaaa atactggaat tgctaaaagc attgaagctg 180  
 caagatccac gatgtcggat acaatgttca ggacatcctg cccgaaaata ctggag 236

<210> 8811  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 8811

gagcaaattc aaacgacaat aacttttgac tcggatgtcc gattgtgtcc tgtaatatat 60  
 cgagacactc gtaattggaa acagaagctc tgagcaaatt caaacgacaa taacttttta 120  
 ctcgatgtc cgattgaatc ccgtaatata tcgagacgct attaattgaa aatagaagct 180  
 ctgagcaaat tcagacggca ataactttta actcgggtgt gcgatttgtt ctcgtagtat 240  
 atcgagacgc tcggaattga aaactgaagc tctgagagaa atcaaac 287

<210> 8812  
 <211> 329

<212> DNA  
<213> Glycine max

<400> 8812

ccttacttga atcttatgcc ccaacactat ttcttcttga accatgaaat ggcattttctt 60  
ccaattgaga actagattgg actcttcaca tctctttaat actctttcaa tatttgataa 120  
gcacccttca aaagatggcc caaaaataga gaaatcgccc atgaaaactt caatgcattt 180  
ttccaccata tcagaaaaaa tagccatcat acacctctga aatgtagctg gggcattgca 240  
tagacaaaaa ggcattgcact gatatgcgaa tacacaaaaa gggtaggtga aagctgtctt 300  
ctcttgatct ttgggatcta caacaatct 329

<210> 8813  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8813

agtcacctgc aagcatgcaa gcttcttaaa tatgagagat aatgtttatc ttcaaata 60  
tagataaaaa gataaaatta ttttaaatca aacctctcat tttttgtttg aaaagatcta 120  
aattcatatc tctttaacat tataattaca aacatccaca tccgaataaa gaagatcaga 180  
cacaaatgat aaaaaagttc aagacttatt tctaaacttg aaaagtaaaa aaatgtttta 240  
ttcttttagaa ttacactcat cataaaattg atagttgata cacaaatatt aatgtggatc 300  
tataaaattt tcacattatt aaaagaaaat ttttgttggt ttaagaacgc acgtgcattt 360  
ggatatacaa attnttttgt atntataatg tttgcagcat attttaaatg gagattataa 420  
ttttgtattg aaaggatccg aaacactctt atttaactat catccttcgc atataattca 480  
t 481

<210> 8814  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8814

agtcacctgc agcatgcaag cttcacttgc ctaattnttc ttcattcccag ctcttaactg 60

cggtggcagt cttcattgca atgcctagtt tgtggatcac agacctttct tccatatctt 120  
 tcctttcaag tgttggcatt ctcatgtctc tactcatttt cctgtgtgta gcagccactg 180  
 cactcttagg acatgtccaa tctaatacatt ccatacctgt cctccacctc cataaatattc 240  
 catcagtatc tggcctctac gttttcggct atggaggaca tattgtcttc cctgaattat 300  
 atacagccat gagagacccc tcccaatnta caaagggtacc caacttcattg aaattttata 360  
 aactgaatta tatgcttaat caaaactntc aataaatata aattgatccg gacagcacat 420  
 catatttatg ttt 433

<210> 8815  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 8815  
 agcttggcac ttgttgcatt tcctcatgtg aacacaacaa tcattctcca ttgtgatcca 60  
 ataataccca gctctcagaa cctttcggcc catgggatgc ccattgacat aggttccaga 120  
 ggatccttca tgaaccttcg ctagtatcta ctggggctcg gctgcattca cacacctgag 180  
 caataccata tcatggttcc ttttatatag gacatcctcg atcagaagga aactgggtcac 240  
 caacctgcgt aatctcctct catcattgtc agaggcccca ggcggttatt ccttgtcctt 300  
 gatgtatcg 309

<210> 8816  
 <211> 185  
 <212> DNA  
 <213> Glycine max

<400> 8816  
 gcgaagaggg tgggaattcct agagcaattc ccttatgtta tcaaacataa aaagggaaaa 60  
 ggtaatatgg tagccgatgc tctttctcgg cgtcatgcat tactttctat gctcgaaaca 120  
 aaattgattg gtcttgaatg tttgaaagca tgtatgaaaa tgatgaaact tttggagaaa 180  
 ttttt 185

<210> 8817  
 <211> 408



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8817

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agtcacctga agctgaagct tctaactntg acaagactga agctctgata ccacttggtg 60
aacaagtggc ctcaaatatc ttaagaagga gggggggttg attaagatat cacaaactat 120
tccccaatga aaaattctac tttgatggta acccaagacc caagattcct tttaaaatta 180
attcctatat aataattcaa attaaactta ctgaatataa acaatgagca acaattaaca 240
aaagagttta atggaagaga aagtgcacac acagtatcta tactggttcg gcaaagtgcg 300
ttgcctacgt ccaatgcca aaaaatacgc ttgagagttg cactatctca caaatccttt 360
acaccttatg atacacacaa ggacaacctt tcctttgtgc tcatatgc 408
```

<210> 8818  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 8818

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agcttgacaa aaaggaagca agttgtttta aacaaaaacg ttgtttctac ttcaaaaccc 60
cttgaactac ttcacattga tttatttggc ccctctagaa ttatgagttt aggcggaat 120
tactatggct tggtaatgt ggatgatttt caaaataaaa aacgaagctt ttgatgcttt 180
tccgaaactt gccaaagtga ttcaaatga aaaaggtctc aacattgttt caattagaag 240
tgatcatgga ggtgaatttc aaaatgagtc ttttgaacac ttttgtgaag aaaatgtaat 300
tcaccataat ttttcagccc caagaacacc tcagtatgat ggtattgtgg agaggaaaaa 360
t 361
```

<210> 8819  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 8819

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tttctctaca atcgcatcac gctctctttg agctggtgaa gaagaatgcg gcatttacct 60
gggggtgaata acaagagcaa gcctttgctt tgctcaaaaa aaagcttact aaggcacctg 120
```

ttctagctct tcctgacttt tctaaaactt ttgagctata atgtgatgcc tttggagtgg 180  
gagttggagc tgtattgcta caaggtgggc accctattgc ttagtttagt gaaaaacttc 240  
atagtgcgc caccctcaac taccctcacct atgataaaga gctttatgcc ttaataagag 300  
ccctccaaac ttgggaacat tacct 325

<210> 8820  
<211> 463  
<212> DNA  
<213> Glycine max

<400> 8820

actaagcttt attaagagat gctttattta cagctaatat ttattattaa tttattaaaa 60  
aacttggtat aacctaccta tttatttcaa attaataatc aacatatcaa tattataata 120  
aataataata cgttagacat gtacaaataa ttaaaaccca ttttagtaat tacattggtc 180  
aaaattaatt ttgattaaat gtattcaatc atcattccat taaacaatca atttttgaaa 240  
aggattgaag agttcaattt ccgcccattc gaataaatga ataattgtta tcatcattta 300  
ccataacgat ctctattac ctttattcaa gaaaaaaat taaaaatatt taattataac 360  
gagttctaga attctaaata tattcttcta agaaaattct atatatatta ttataagggc 420  
agtgcata atattaacat aacataaatt caccaacaca ttt 463

<210> 8821  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 8821

aatgtgaagc atgtattcaa gcattacaac ctagaatgga ttttagtaca tgtattgaaa 60  
gagaaattaa cttgcttgaa ttgggtcata gtgatatatg tgatagtaat gatgtgctaa 120  
cacatggtgg taagggatac tttattactt tcattgatga tttctccaaa tattactatg 180  
tgtattttaga taatcacaaa agtgagttgt tttataagtt catagtgtat aaaacagaag 240  
tagaaaaatga attagaaaga aaaattaaaa ttttacgctc tgatagagat ggagaatata 300  
catctttgaa tatgagtaat ttttgtgaaa tgcattggtat tattcatgaa gtgacacctg 360  
catatgctcc tgaatcta atgtattgtg aaaaaaaga atcatacctt gcttgatatg 420

<210> 8822  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8822

tcactgattg ctttggacct ttgccattgt ccaccaaaaa ggccatcttt agcccccattg 60  
 ttgtgtgtac ctccaagtgg cagtgcattga accaaactcc tatcaaacac atacccaaca 120  
 tatatttttag tactgggatg agtttgttac actcttaaaa acaaaggctt ctaagtgtga 180  
 aagactttnt atattgtgat ctaattatgt atagtaatat atgataaatn tgttgactct 240  
 aaaaataaat tntgatgggt gatattttta gaatttttac atttgaccat acatcacaat 300  
 taagctttta gttntaggga taattatatn caatttcttt gatgtgtgaa taattactca 360  
 gaatttactt 370

<210> 8823  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 8823

gggtgataat agatccccct gcctaagtcc ccctttgggg gagaactcag ccatggggct 60  
 accattcacc aaaaccgaaa tagacgcaga ttttaaacac cctcaatcca tttggaactg 120  
 aaatctgtta tttccaacat gtacaacaga aaataaccagg agaccgagtg ccttctcata 180  
 atctactttg aatacaagga atgatttgct gctctttttg gcctcttcaa tcacctcatt 240  
 tgcaatgaga gcacaatgta atagatgtct tccctcaatg aatgcatatt ggtctctatc 300  
 tacgatatat gccatcacct tcttcattc 329

<210> 8824  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 8824

agcttataga actatcccaa ggaaacaagg caataggtgc taaatgggtg tttagaaaca 60  
 agctagacaa ggcaagtaaa gttgtgagaa acaaggcaag gttagtttcc aaaggctact 120

cacaatagaa aggtataaat tatacagaaa cttatgccct tgttgcttgt ttggaggcta 180  
 tatgcatttt accatcattt gttgctcata ctaaaatggg actatataaa ttggatttaa 240  
 aaagtgcact cctcaattga tttatacaaa aggaagtcta tgtagaaaac ccccttaggt 300  
 ttgggagtaa cacttttcca caacatgttt ttaaactcag taaagctcta tatgagctaa 360  
 agcaagctcc ttgagcttgc tatgaacgtc ttcgttcatt c 401

<210> 8825  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8825

agcttngtat tttctcacag ataggacatg catgatgtcc tttgacacta tatcaactca 60  
 aatttccata tgctagaaag tcattaatgg tacaaaaaac catagcacgt aaattgaatg 120  
 tctcttgaag attcccatcc cacacatcaa ccccgctctc ccacaatttt ctcaagtttt 180  
 cgatcaatgg agtgagatac acatcaatgt gatttctctg ttgccttggga ctggcaatca 240  
 tcatgcaaag cattatgtac ttttgcttga tgcacaacca atgagggagt ttgtaaatca 300  
 tcagcaaaac aggccatgaa ctatgattga tggttaagtt accaaaagga ttcattccgt 360  
 cggaagcaag accaagccta aggtttattg tgttgtctgc aaaattaaga tacaaatgat 420  
 caattgtctt ccatt 435

<210> 8826  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8826

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 acataaaaaa ggaaaagggtg atattgtagc cgatgctctt tctcggcgctc atgcattact 120  
 ttctatgctt gaaacaaaat tgattgggtct tgaatgtttg aaaagcatgt atgaaaatga 180  
 tgaaactttt ggagaaattt ttaacaattg tgaaaatttt tcagaaaatg ggttcttttag 240  
 acatgaaggc tttcttttca tagaaaacaa attgtgtgtg cctaaatggt ctactagaaa 300

tttgcttatt tgtgaagcac atgaaggagg tttaatgggg cattttgggg tccaaaacac 360  
tctaganaca ttacaagaac attnttattg gcctcatat 399

<210> 8827  
<211> 328  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8827

agcttcaacc aagaggggat ggtccatttc aagtacttga aaggataaat gacaatgcgt 60  
acgagattga attgcccggg gagtataatg tgagtactac atttaatgtg tctgacttaa 120  
ctctttttga tgtagatgga gaagccgatt tgaggacaaa tccttttgaa gagggagaga 180  
gtaccaagga agctcttcaa caagtgttaa ccatgctatt tgaatttacg cccaagttac 240  
aagtggagaa gcttcggatt gttaattgca ccatgttcca agaagagtag aggggtgccac 300  
ttttgttgag tggttntatt agcatttt 328

<210> 8828  
<211> 508  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8828

agtcacctga ggctgcagct tcaagcacco tttgactga gaatctattg gattgcgaac 60  
ttgggtggtt cgtgcttgtt tgccacttcg gccattgttc gattgataac tgtegatgta 120  
gtgaaattgg agctaagttt gagagtggat gacatattct cgttgggttaa tcttccactg 180  
tccgccttcc ttttcctagt agcaatgaaa ggatcaacgg ngattcaagt gattagaatt 240  
tctgatgtag tgacaacata tcagtcctt tacactgaca gaactntgag cccttatgcc 300  
tattcttcgt tcttctccaa aacagtgtgg ctttgatga accctttgct gaacaaaggg 360  
tacaaaacat ccctcaagct tgaagatgtg ctttctcttc ctattgattt cagagcagaa 420  
aagatgtcag agctttttcca tagcaattgg ccaaagcctg aggaaaacag cacgcactcg 480  
gttgactca ccttggtgag atgcttct 508

<210> 8829  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 8829

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aggcatctcg gagaggatct tttctcggtc atatttgccg aaaatctctt gaactaggaa 60
gatgttggtcc atcgctcttc tgttcttaat gaaagcagtt tgagtttccc caataatagt 120
ctcaagcact ggggctatgc ggtagccag aatttttagat acaatcttgt ataacaaatt 180
acagcaagat atgggtctaa aatgggtaac ctgggaggcc tggatcatgct tatgaataag 240
cgcaataata tcatgggtga gctgctttat aatttttcca gctgcaaaga tatcatcacc 300
aatgatatgt caagccttct tgaagaataa aacattgaaa ccatctggcc caggagctct 360
attattatcc atcacagaaa taac 384
```

<210> 8830  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 8830

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agcttagagt gcagaagaag aagcagcaat caatttaata atgttcttta aacatgcaag 60
gcaaaattga ttgtaataac ataaatgaga taagggaaga gagaatgcaa acacagtttt 120
atactgggttc ggcaaatttt gtgcctacgt ccaatactca agcaaccacac ttgagatttc 180
cactatcttt gtaaaatcct ttacaacttc tgaaccacac agggacaacc catcccttgt 240
gttcaggaat cttataact caagagaccc tcaatccctt aatcaatctt actgaatgag 300
aagaaagaaa gaagaattat ttcttgaaga gaaggatatt acaatgaaga tccatggatg 360
aactcttaat gggattgcaa gtgtttgccc acgagttctt gagagagcat ttggcaatga 420
agttctcttg gaatctctct tattttcttt 450
```

<210> 8831  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8831

agctntacac aaatgccact atactccaag ttttaaaagg atatgtaac aaggacacac 60  
aagtatattc accaggaaaa cattgttgtg gaaggaaatt gtagtgttgt gattcaaaag 120  
atccttgcac ccaagcataa agaccctgtg agtghtaacca ttccttggtc aattggagaa 180  
gtcactatgg aaaggcactt attgatctgg gagctagtat taccattgtg ccactctcca 240  
tgtgcagaat gttgagagac gtggagatca tgcccactag gatgacttta caactgttga 300  
ccgctctatg accagaccat atggagtaac tga 333

<210> 8832  
<211> 534  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8832

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atagattaaa ataattntaa atgtttaatg tgtatccaat taattatatg gatgtgtatc 120  
tcaatatgtg gtaaaccatta gaatgaattt taatataata cataagttat ttttatttgt 180  
caaacctatc tgtcatataa tgaaaaagac aaaaaaaat gtacaataac aaattaaatt 240  
ttattttattt tctataaatt ctctatatct tttctatata tagaatatag aattcctata 300  
tatagaatat agaattcttt tattctttta ccttcttttag ttaataagggt taaagaataa 360  
aagacaaaaa aaatagaagc gtccattgtc taatggatag gacagagggtc ttctaaacct 420  
taaagtatag gtcanatcct aatggacgca aattgtttga tatnattgat atatatgcaa 480  
ctattgcatg gaaaaatgat ttcattgata atgaccatgc ataaaaatga caca 534

<210> 8833  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 8833

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acagcggcat tgttatacaa gaggcctcac atatcttaag aaggggggggt tgaattaaga 120  
tattccacac tgtttcccta attaaaaacc atttcctttt tactcaagtt atgaattccc 180  
ttaatgacaa tcttcttaaa tattaattca aatgaagcaa ctggaatatg aatattatgc 240

acttataaat aaacgagatt aagggagag aaaatgcaa ctcagtttta tactggttcg 300  
gccacactcc ttgtgcct 318

<210> 8834  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8834

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gtaaaaaggt atgaccattt tagtttatcg ggagccttcg tttttcaatt tcgagcgtct 120  
ctatatgtga tgagctcgaa tcgacatccg agtgaaagtt atgaccatct gaatttctcg 180  
agtgccttcg ttcttcaatc ttgagcgct caatatatta tgcgcttgga tctcgacctc 240  
cgcgggaaaa gtattgacca tttgaatttc tcgagagctn tcgttggtca atttataatg 300  
catcggaatc ggacattcgt gtgaacagta tgaccattg attttttgag agcttccgac 360  
gtttaa 366

<210> 8835  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8835

agcttctttt ttccaccaca ttntatcctc agaccgatgg tcaaacttat cataaggatg 60  
cacaagctaa agttgagtat gtgaaaagat tgcataagca agtgaaggct caaattgcaa 120  
agaagaatga aagctacgcc aagcaagcca acaagaacaa gaagaaagtg gtacttgaac 180  
catgtgatta ggtttgggta cacatgagga tggagagggt ctctatacaa aggaagttga 240  
aactcaacct agaggagacg aacctttcca agtactagag aggatcaatg acattgctta 300  
caagattgat atttcaagtg agtatggagt acgtctctta tttaatgctg ctgacttg 358

<210> 8836  
<211> 432  
<212> DNA  
<213> Glycine max



<223>        unsure at all n locations  
<400>        8836

```

atatgaatgt cttagttcat ttctttttaa caatgactnt gaaagaggaa aagtggatac   60
aaatttggtc tgcaagaact atgactccca atttatatta gttcaaattt atgttgacga  120
cattatatgt ggtgttattt ttgaacctct ttgtgaggat ttttctaggc taatgcaaaa  180
tgaattcaaa tgagtatgat gcgaaagctg aacttcttct taggactaca gataaaacaa  240
accaacattg tcatatatct gctagaagac ggacttggtc cctcgactca atcaccaact  300
gatatatctc tggtttcttg gtctccact gataccacta cacaatgcaa acatcttgat  360
accctgtcac ttctcaacc tataccttgc atgacgnagc aatgatcgag cttactata  420
tctaattcat cc                                                         432

```

<210>        8837  
<211>        331  
<212>        DNA  
<213>        Glycine max  
<400>        8837

```

agcttcttac aagagactaa gaaatttctg tctttatttt ttaagatgaa agatcttggg   60
aagctctctt tgtattatga atcaccatac taagagatcg ctttcaaggt attctaaggt  120
tgtcacaaga gagttatata aataagggtc ttaattgatt cgacatgaaa gatagtaaac  180
tatgagatac ccctattgct taaggagaca aatttagtct caaacaatgc cccaataatg  240
accttgaaag aatcgagatg caaaagattc cttatgcata agcaattaga agtctaatat  300
acgctacagt tgcactcgtc ctgatataca c                                                         331

```

<210>        8838  
<211>        342  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        8838

```

tggttntcaa ttacgagtgt cgcgatatcc tacgggacac aataggacat ccgaatcaaa   60
agttattacg tttgactttt cctagagctc ccggtttcaa tttctagcgt ctgatatat  120
taaagggtc aatcggacat ccgagtcaaa agttattatc ggttaactat tcttagagct  180

```

atacgtttga attacgagcg tctccatata ttatggcact caatcggaca tccgagttaa 240  
aagttattgg cgtttgactt ttcttacaac tategttatc aatttatagc gctctgatat 300  
attacagggc tcagatagac atccgagtta agagttattg tc 342

<210> 8839  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 8839

agctttataa gaccgtggaa ttagccattg ttgtgtggcc tggatcttct gttggactag 60  
tttgaccctt ttgcttgaca ccatgtggcc catgtactcc acctggggtt gggcgaagga 120  
acatttcgag agcttaatga agaactggcc ctgcaacaaa accttgaaag ccaattccaa 180  
atgaagttaa tggtcattga aggagctact ataaactaga atgtcgggat gtggacatca 240  
aagcccaagc ccatgacata ccaccagcct caggcccatg acttgatgga agcc 294

<210> 8840  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8840

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taactgaagg aagtgtgtat tgcaggtaac taagaaattc aaaagattga caaaaatcta 120  
agaatagtat gcatgcaact tgcaaaactt agaacctgct gaggtcatct gaatttggag 180  
ggaagtagta aagcagcctc tgaatcaaag aggtagcagc tttcctgttg cgtgcaatta 240  
gaacagcatt tggccccgca tcaaatgtat aagctacctg caagtcaaaa ttattaaata 300  
tttaaataga aatatagaga ttatatacaca ttgtttgtt tacatgagcc cgtgtaatta 360  
tcacaactaa naaagatgta tatatacaca ttattcaaat ggngggttata ccgaaagttg 420  
atgtggtgca cgggcat 437

<210> 8841  
<211> 412  
<212> DNA

<213> Glycine max

<400> 8841

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aatccttcct atagcttcct ctttgggtggg gaaggatcatg gttactaccg ttataagctt 120  
tggttatcaa ctcgtccccc ggggtgggtcca ttcaaccctg cttttccatc atcttccatg 180  
cccatgatgc ttcctccaaa tccaatgatg aatctgtctc ctgtaaatgt ttctccgatg 240  
aaccttgcag gaattgggtt ttcaccttcg atgctagggt cacctccttt ccaacagttc 300  
tatgatcaac aacaccacca tcaacatcct cagtcttttg gacttcctgg tcggcctgag 360  
tatgatcccg catccaagtc tttcacaggg atctctgggc cactctcatc tg 412

<210> 8842

<211> 300

<212> DNA

<213> Glycine max

<400> 8842

agctaattgct gtaaaccattt attataggcc ttctcagtag caaaaccaac aatagcagaa 60  
taattatgat ctttcaagtt acagatgcaa tgtaagttgg aggaatcatc caaatctgag 120  
atgggcaagt tcttcacaac aacaacaggc tgtgcttctc tttccagaat gttgtatgtc 180  
caagtatgcc acatgtttct cctccaatgt agcaacagca gcagcatcaa cagtcacaat 240  
aaagacaaca agcagctgat gcttcttctc agcctttcta gaagagtttg tatgcaaatg 300

<210> 8843

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8843

acactatgaa actaagctta atggaggaaa agaattgatg agaggtggaa ggagcacaaa 60  
attntgtgcc tcanatgagg tctgagattt gaagtgtaat tctaaaaatga acaaatttga 120  
aaaaatgcac acacaatgcc tttatatata gccgaagtgt cacacaaaat tggagtggaa 180  
attgaatttc tattcaaatt tcacttgaat ttngaattga atttgtggag ccaaatttgg 240  
agccaaaatt tctaataa tgattagtga attttagcta tggttcagcc cactaatcca 300

aatcaagtc caagattctc cactaagtgc gcttaggtgt tatgagacat gtaaaacatg 360  
aaggacatgt acaaagtgtg actatatgat gtagcaatga gatgtagcaa gcaaatgttc 420

<210> 8844  
<211> 420  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8844

gggctaatct ttctgtaac tnttccttgt cataatctga agtgctatct tcaattgctg 60  
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gtacatgaaa cagaatacac caacaatggt agaataaaaa ttaataatag tggaagattc 180  
aaacagacct gctcacttct ttcttcaatt gctttcttat caccagctcc atcaaggatg 240  
acagtgtcat ccttagaaat tgttatctaa aacatacaga accttattca gttttctaaa 300  
tcatttaacc ttgaaaatag tatgggcata gaatagagaa atttaatgac actttcttta 360  
aaaagcttaa acacaagtag ntgctccagg agaanagtca gcacccata ccaaaactat 420

<210> 8845  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8845

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gctttccagg ttctgtatc cagtgatttg aggaaggcca ccattcttgc tttccagtat 180  
tcatagttag ttccatctag gattggtggt ctgttactg gtctctcttc tttctccatg 240  
ttcatcagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc 300  
aattgaaatt ctgataccag gggacagatg tcgtaccgga tgtcacgaca tcacgcttca 360  
aaacatgcag attatatgtg tccgtatgaa cagattaaac aagtaaataa cacaagagaa 420  
tt 422

<210> 8846  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 8846

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 ctggcacaat ggtcctagga aaaccatgaa gtctcacaac tggcctaataa acgagttttg 120  
 agatgtggga agcatcatcc acctttgggc atggtataaa gtgtgcccac cttgctaacc 180  
 tatccaccac cacaagata gagtctacac ctctttgggt tctagggagc ccaaggacaa 240  
 agtccatact aatgtctacc caaggtgcac atggaatggg t 281

<210> 8847  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8847

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 ttgatccaac acatcagagg agctattata cctcctgct tggccttctg aagtccatga 180  
 cccatttgct ctgaccttta gaaacaaagt tgagctagta tcctgaaaac caccaaaact 240  
 aaagctcctc aacacccaac aaaatgacct ctctcattt agcccataaa ctgaagccac 300  
 acaatcacia tctgacaagc atgcactccc acatnttgac acnatagaaa tatcactata 360  
 ttagctatta c 371

<210> 8848  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 8848

tttgacagtt gtgacatctc agtttctctt tgtcaaactt ccattccttg cttccattgg 60  
 agctatcatt ttgcttttgt gattaatcac ttttctttcc tttagaggat tcactacttg 120  
 cattagatcc ttgatcctgg tgtttttgat tgggtgcatga cttatttctt ttccatggtc 180

ctttgccttt tcctttgtaa gtggattgtg cctgaagtgc ctgttcttga ttggatcttc 240  
 tctcattgat ccttatttca tgtgcctcaa tagagcgtg caattcttca atctccatga 300  
 tgtctaagtt ccttgactct tcaattgcaa caaccacatg atcaaatcat ggtggcaaag 360  
 tcctcaagat cttgtctacc acttggtcat cagagatctt gtctttacat gacttcatga 420  
 cattgaccag ttcttg 436

<210> 8849  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <400> 8849

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 gactgctggc accatctttc aatctaaatg gccaatgaat ctgcatttta tacattagag 120  
 cctctgtgtc tgttactaca catatcaaac cacatgcaaa aatagatgcc atttaagcat 180  
 aatagaagct cattaccaag ttaagatcaa cgtaatcaag ttggagttct tgaaggggat 240  
 tgttgatagc aggtctaacc ctttcagggg tcaagtctgt gcaccacct catgcaataa 300  
 tttacacaca cacacacaca c 321

<210> 8850  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8850

cgcttattgn gagccatgcc aatggtagat tgaaaactat tgttataagc gaactctatc 60  
 aacggaagag aactctccca actccctttt tgctctacga cacacgccct caaaagggtcc 120  
 tccagcgact gaatgggtcca ttcagtttgg ccatcagttt gagaatggta ggcagaactt 180  
 agtctatgct tggttcccaa tgctctatct aggtctctcc aaaatctaga ggtaaaccta 240  
 ggatctctat tagacactat gctagatgga acaccatgta atctgacaat ctactaata 300  
 tacagggagg tcaacttctt caaggacaat atgatattaa taggaataaa gtgagcatac 360  
 ttggtcagtc tgtcaacaat aaccagata gaatctaaac ctctgggggt tctagatagt 420  
 cctacaacaa aatccatgg 439

<210> 8851  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8851

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 acaaatagct cgaccctag ctgatttatt gaagaaggaa aatatcaagt ggactattaa 120  
 aagtattgag gactctaccc agttgcagca ggctgtcacc acagcttctg tactatcaat 180  
 gccaaatctt tcaaaaaaat attccataga atgtgatgca tcgggaaagg gagtaggggc 240  
 tgtgttaact caagataaaa ggcctatcgc ttaattcagc aatgctttgg cagattcaac 300  
 actcacttta ttaatttatg aaaa 324

<210> 8852  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8852

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 cacaggccgc catgttctct ataagctcta ttgcctctc tgggtgtctc aacttgattt 180  
 ttccccttgc ggatgcgtca aggagttggt ttgactgttg tcacaagcca tctatgaaga 240  
 tgttttagttg caccagctcg ctgtacccat gtgtaggcat ctttctgagt agtccgtgaa 300  
 aacggtcgag cgcctcacag agtgattcat tgtggaattg gaggaatgag gatatttcca 360  
 tcttcccctt gataagtttt gactatggga agtatttctt caagaacttt tcaacatctt 420  
 tctcct 426

<210> 8853  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
  
 <400> 8853

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 cacttccaca ccacaccctt caaaatctat cacgcaaata tgggcctctg atgcaccttc 120  
 aacttgggtga aattttctgca gtggttgtgt catcctctga catggccaag gagataatga 180  
 agactcatga tcttaatttt gtgcagaggc cagaactcct ttgtcctaaa atcatggcct 240  
 atgattcaac ggatattgcc tttgctccat acggtgatta ctggagacag atgaggaaaa 300  
 tatgtacgct agagcttctc agt 323

<210> 8854  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8854

tcttgggggtt ggctggctat tataggaaat tcattgaggg attntccaaa ttggcattgc 60  
 ccctaactaa gttgactcgt aagaacgaga agtttgtctg gaatgagaag tgtgatcaaa 120  
 gtttccaaga gttgaagagg cggttgacga cagctccggt gttaatttta cccgacccta 180  
 agagaccatt tgaagtgtat tgcgatgcaa gtgggcaagg cctgtggtgt gtgttgatgc 240  
 aagagggaag agtgggtggct tatgcttcac gtcaattacg tcctcatgaa gtaactacc 300  
 cgacccatga cttggaacta gcagcgggtg tctttgcctt aaagatttgg aggcatatt 360  
 t 361

<210> 8855  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <400> 8855

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 tttatgaaag ataatcttac ttgaaccaat aagattacca tgagtataa aactatcatt 120  
 ctaaataattt aatgcagtac atacctgata taagtttaaa tctattagcc tacctatttc 180  
 tataatgatt attaaataat ttcaataaaa cttatttctt ttaaaaaaaaa tccaccctta 240  
 tatcatattt gaatccttaa tcttgaaagt aaaataattt caataaatac tcttcttcct 300



cacgtgtctt taagctataa ataaataata tttatatact aattattcat tcaaagaaaa 360  
tagtgggtata aattggagaa attgcattga aaattgacac 400

<210> 8856  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<400> 8856

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cctccacgga attgtatcaa tggcgatccc caagtacaca caaggaggag atacacttac 120  
acagttaagg aattttgcag atttctctac aacatcccta gccactccaa agcctccaaa 180  
tttactcttc tgaaaatcca ctttcgagca ggatacaagt tcaaaagatc ccatcatact 240  
tttgaagact atcacattat aaacactaaa ttttcccaca acaattatat catccacata 300  
ttgcaataga ttcattctctt gctctttaac accccacttt tagtcctcta tagagaattt 360  
tagcaaccgc ttcctctatc aaaccgggta gcccttcttt tacaatagtg aatagaatag 420  
gaacacacga gtcttcttgt ctaaccttat 450

<210> 8857  
<211> 409  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8857

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tcgattgccc atcggtttgt gggtgacaag tgggtgaaaa taacaattta gtgcccact 120  
tgccccacaa agtcctccaa aaatggctta ggaacttaga gtccttatca ctaacaatgc 180  
tccttggtaa accatggagt ctcaaatct ccttgaaaaa caaatcagcc acatgggaag 240  
catcatcaac ttttttacat ggaataaaat gagtcattnt agaagacctt tcaacgacca 300  
caaaaatgga gtctctacca ctgcttcgtt ttggcagccc taaaacacaa tccatggata 360  
aatcaatcca aggatactcc ggaaatggca atggaatata caatccatg 409

<210> 8858  
<211> 441

<212> DNA  
 <213> Glycine max  
 <400> 8858

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 atgtccacca ttatttccat gacacaaatg caataatgat gatttgaaa ttttatgcaa 120  
 aactagtcac gcatgcacct atgtggacac aaatgtccac cattatttcc atgaggtatt 180  
 ttgctaccta aacatatgta tattttttgtg aggtattttg ctatatacat gcgtgtccaa 240  
 ggtatcttgc tacctaaaca tacatatata tgttttgtga gatatttttg ctatatacat 300  
 gcatatccaa ggtatcttgc tacctgaaca tacacatata tattttgtga ggtatcttgc 360  
 ctacatacat gcatatccaa ggtatcttgc tacctaaaca tacatatata tattttgtga 420  
 agtatttttt tggttacata c 441

<210> 8859  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8859

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 ctcaagtagca aaatcaacca cagctgaaga atgatgacct ctccagcaac agatacaacc 120  
 ctggatggag gaatcaccct aatctcatat ggtctagccc tcatcaaata caacagcagc 180  
 ctgctccttc catacataat gctgctggcc caagcagact cgtcatttct tcacctatcc 240  
 aacaacagca acagtccgcg aaattagcaa acttggtgag gctgctccac aaccttcct 300  
 tgaagaactt gtgaagcaaa tgactattca caaca 335

<210> 8860  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 8860

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 cagagacaac atttgttcaa ttgcagaaag tcatgacttc agctccagtg ttagctcttc 120

ctaatttcca gctgcccttc attctggaaa ctaatgcttc caacactggt attggagcgg 180  
tattacatca gaatggccat ccaatagcat tttttttcca agaaacttgc acctagagtg 240  
caaaagaaat ctgactaatt tagagagatg ttagcaattg ttcaagctat agctaagttc 300  
agacactact tgctgggaca cacaattatt atcaaaactg atcaaaaaag cttgagatca 360  
ttgatggaac aaccctaca gacacctgaa caacagcagt ggttacacag gtttttggga 420  
tatga 425

<210> 8861  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 8861

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ccatgtgatc agagagatat gaaaggcatt taaaaacaag ctctagatgc aagtgtgaat 120  
tggcttctac aaagaaagga aggatcttct ggtaaatctc aattcaacta caccctggat 180  
tcttttttaa tacaagctct ttcattcttg atctcaccac actgtacttc atcccactta 240  
tgtgcagaag catacatatt tgacaagaga atatacgtcg atgaattaca cgatccttac 300  
aaaatcgttc ttgaatttca gttccaat 328

<210> 8862  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 8862

cacctgatga gtgctcgttg agtgcggttg atgcatgtct tgctgcgaaa ctctgctcg 60  
tgattcagag tgggtgcaat cctataatga aacaacagtc tgctgagcta tagaagctgt 120  
gtagtttaaa ttattcagac actatcttta tttccaagtg caagcttacc ataaccattc 180  
aatgatcatg gactacatcc atctgggtggc gccacaatt tgaaatttgt ggtgcaagag 240  
tagctaagaa gatcagttgc atctcaagac caccgaactc taataaacgc caagacaatg 300  
atcatggggg tgagggtgcaa gtctctcctt gatataatcc ttatatatttg attcccacaa 360  
tcgatttgaa tgaagaataa ttttaatgtg gaca 394

<210> 8863  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8863

tcaagaaagt cctctccaag agtgactaat gttgctgttc agaaggctgt gagtgccttat 60  
 tttctgtagt tttctgttca actgcctaat tcagttgagc aagatttggtt aggaaattta 120  
 ttgtcttggt cactgttatt gatgacatct tttattctct tctcaggctg ctgcattgaa 180  
 gggttctgat catcgtcgtg ccacaaatgt cagtgcctaga ttggatgctc aacaaaagaa 240  
 gttcaacctt ccaatcctcc caaccaccac aattggatcc ttccttcaga ctgttgaact 300  
 gaggaggggtg cgtcgtgaat acaaggctaa caagtaagat atgccttgag ttgataggtt 360  
 ggcttggttt cttgaccatt ttggctntta ctgaccctt tgattt 406

<210> 8864  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <400> 8864

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 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattctct ttggaggata 180  
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
 tgctgccctt cattagaact tcaactctct catttgctac caagcattct gactttgtga 300  
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactag gaagtcca 398

<210> 8865  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8865

ntagccttag gttgtccacc atgttgctcc ctctatatct ctaacaagaa gaacttaatt 60  
 agttgatcaa aaatgatggt tggacacttg ttctgaagcc aaaaaataag cgcatacatta 120  
 gaactagaac aagatgggtc ttcagaaaca agttggatga ataaggaaaa gtagtacaca 180  
 acaaagcaag gctaatagct caaggctata ataagcaaga aggcatagat ttcggtgaaa 240  
 ctttttctcc tatagttagg cttgaagtta taagaatcat gcttgccctt gttgctcaca 300  
 aaaacattaa gctttttcaa atgaatgta aaagttcctt tttaaacagt ttcattgaag 360  
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<210> 8866

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8866

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 acaccagaga ttactctctg aacaatagag atcaactcta cacattcagg tccaacactt 120  
 gatgttaggg taacatcaag gtggctcaca aaacactcaa gtcccaaaac tcacaaaata 180  
 actcttcaat ctcgacttg gtagaaaact cgtgcagcct tcattgttta tatagcagtg 240  
 tgcgtatctg ggctgcaaca acttgcgctg gataagatct atcattctcc tgaaaatctg 300  
 cacttaaaga tctaaaagat aaagtttgat cttttagttt ttatctttaa tctttaatcc 360  
 ctgaacgaaa ctattcaagt tgtaattcga act 393

<210> 8867

<211> 403

<212> DNA

<213> Glycine max

<400> 8867

tcaattctga atttcgagt tctcgatata ctatgggtca caatcggacg tctgagtaag 60  
 aagttattgt cgtttgaaat tgcataagagc ttttgttttc aattttgagc gtctcgatat 120  
 attacgagag gtaatcggac ctccagagtaa aaagttgttg ttgttagaat ttgctcaaaa 180  
 cttcttttct gactttcgag cgtctcaata tactacggga cacaatcgca aatcagagta 240  
 aaaagttatt gtcatttgat tttgctcaaa gcttttggtt tgaatttcgt gcgtctagat 300

atactacggg acacaatcgg acatgcgagt aaaaagttat tgtcgtaga tattgctcag 360  
agcttcaatt ttgaatttcg agcgtctcga tatattgogg gat 403

<210> 8868  
<211> 391  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8868

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atagagttac agacatcttg gaattgatac atacagacat ttgtgggcca tttcctacac 120  
cttcatggaa tgggtcaacaa tattttatat cattcataga cgattactct agatatgcat 180  
acttgtttct tatacatgaa aagtcgcaat ctttggatgt gttcaaaaca tttaaagttg 240  
aagttgaaaa tcaactcaac aaaagaataa agtgtgtcaa atctgaccgt ggtggtgaat 300  
actatggcat atatgacggg tcaggtgacc aacgtctggg gccttttggc angtacctag 360  
aggaatatgg aattgtccca cagtacacca t 391

<210> 8869  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<400> 8869

tgtccaaaat cgtgaagtaa acctcggggtc cctgtctgat acaatactgg aaggaattcc 60  
atgtgacctt actacttctt tgatatacaa ctctactaac ttctccattt tatatttcat 120  
atttaccggg ataaaatgag cagatttggt gagtcaatct actatgaccc acacagcatt 180  
gtgtccacga ctcatcttgg gtaaactaga taaaaatcc atagatatac tctcccattt 240  
ccattttgga atttccagtg gctttaattc tctgatggg cgctgggtgct cagccttggc 300  
cttttgacat gtcaaacatt ttgctacata ttgagctaca tccttcttca tgccatgcc 360  
ccaaaaactt ctcttcaaat cttggtacat cttagtcatt cctggg 406

<210> 8870  
<211> 173  
<212> DNA

<213> Glycine max

<400> 8870

tcaaccaaga agggatggtc catttcaagt acttgaatgg atttatgaca atgcgtacaa 60  
gattgaattg cccggtgagt ataatgtgag tactacattt aatgtgtctg acttaactct 120  
ttttgatgta aatggagaag ccgatttgag gacacacct tccgaagagg gac 173

<210> 8871

<211> 401

<212> DNA

<213> Glycine max

<400> 8871

tgtagttgct ggaaatcctt ctggaagatt agtggatatt actgatgggt ggaacacagc 60  
ttctgttggt ggaacattct cagggcctaa gcattgcttg gccacagcag caactgtgaa 120  
ggacgggaag gtgtatctga accatatggt tggaattgga tacccaaaaa agaagcatgc 180  
aattgttgag gcagtttttt aacgcatact ttctagaaat ctaaactatt gggaactggg 240  
aatgtgggga tcatacattt acaggacggt tagttgaaat ttggtgtacc tttgcttatt 300  
tatgtttggt tttgttgcatt tacttggcct cagacctcaa tgcttttccc ttgaattctca 360  
acctaacata agatgctcga tcgagtaagt taattacct t 401

<210> 8872

<211> 407

<212> DNA

<213> Glycine max

<400> 8872

tatcaaaatt gaaaatgatg gttcctaatt tcaagaatct tagagtctta gattgtgagt 60  
cttgccaact aggaaaacat gttagggtcat catttcctca aactgtacaa agatgtaact 120  
ctgctttctc taccattcac tctgatattt ggggaccaag taggggtaca tcttttgatt 180  
ttcgggtatt tgtaaccttc attgatgaat ttttcagatg tacttggggt tatttaatga 240  
aagacagatc tgaacttttg cctatatcca tgttgttctt taatgagatt gagaatcaat 300  
ttggcaaacc aattaagatt ttcaaaagtg ataatgctaa agagtatttc tctcatgatc 360  
tctcttcctt tttatcttca aaaggatttt tgcattcagtc tacatgt 407

<210> 8873  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8873

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 gatatgcatg tatgtaaaca aaaaaatact tcacaaaata tatatatatg tatgtttagg 120  
 tagtgaaaat accttagata tgcattgtatg taaacaaaaa aatacttcac aaaatatata 180  
 tatgtatgtt taggtagtga aaatacctta gatatgcatg .tatgtaaaca aaaaaatact 240  
 tcacaaaata tatatatgta tgtttaggta gtgaaaatac cttagatatg catgtatgta 300  
 aacaaaaaat atacttcaca aaatatatat atatgtatct ttaagtagga agatacctta 360  
 gatatgcatg tatgtaaaca aaaaaatac ttcacanaat atatatata 409

<210> 8874  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8874

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 gtaatggaga aggagaaggg tgattggaga tgccacttca aggagaagat gagtctagaa 120  
 gaagctcacc accataggaa gccatggata agagcttgaa ggtaagagaa gatgaatgga 180  
 gggagagggg gaaagggagc atgaaattta gtgcctctaa agaagtttga actttgaagt 240  
 ttaattctca aatgatcaaa gttgaaaaaa tgcacacaca tagcctctat ttatagccta 300  
 agtgtcacac aaaattggag ggaaatttga atttctattc aaattttact agaatttgaa 360  
 attgaaattg tggagcccaa anttcactaa ttatgattag t 401

<210> 8875  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8875



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 ttctcacttg caaacttggt ttaagcactg atccaattgt ttcaagggct ctgcttgaca 180  
 tgtatggcaa gcggggagac ataattgaat ctcaaagagt gttcaataag acacttgaac 240  
 gaaccagtt tgcttgga accataatat tttcctatgc ccacctgga gactttgagt 300  
 aagtgatgag tttgcataca gaaatggaaa ggtaaggaat caatctagac tccatcactt 360  
 tcctttttat tttgggtgca tgatgtagaa agggcatggt tgatgtcttt g 411

<210> 8876  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 8876  
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 gcaagttgaa agccttggag gaaaaaggta tgcctatggt gttgtggatg atttctccag 120  
 atttacctgg gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgatcatcaag agaatcagga gtgaccatgg 240  
 cagagagttt gaaaacagca ggttactga attctgcaca tctgaaggca tcatcatga 300  
 gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa acaggacttt 360  
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<210> 8877  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8877

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 aataaagtgg ctggatcaat gcacataaat caatcaggtc agtcatggca tcaccagtaa 180  
 ttcttcggtt ttttaattata aaactccttt tagaaattta tttatttcct tttatatttt 240

tttttaattt ttaaataatat tatttattta ttttcactat atatctttac ttaattattt 300  
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 tntggcatga tagtataaat aattgacaga tttaatataa ttaac 405

<210> 8878  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 8878

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 cttctgtgtc aggcatttgg gaagaactag tgcactctct atgaaggctg agccaccctg 180  
 tgcaatgaat gggcatgtgg catgcattgc gtcaccaaca attttactg tacctttctt 240  
 gaatttgta aagaccaagt ccaatggtgc cctatacttc aactcagtaa aatgtaagaa 300  
 gctcaacatg caatttcgta ttatctccac tatcccatct gggaaacctt tcattgattc 360  
 tattaatgac tgtctaataa gaattgggtc 390

<210> 8879  
 <211> 515  
 <212> DNA  
 <213> Glycine max

<400> 8879

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 atgaacaacc aatgaaaca tgacagtga gaataaagga ggaaatatca tttccatgtg 180  
 gtataaagtg agaacaactt gattttgtaa ttagtctaaa tccttaactt tcaataattt 240  
 aaccacatat ttttttaaag aatgagcata actcaattaa tactgttgaa acctcatctg 300  
 acaatgtaga tcacatggct aatggtagca attgccatac caatatgtga caattgtgac 360  
 tcttcaacgt tccagtcaac tttagatttt ctgagtcgat acaccaagaa atgttgcttg 420  
 aataaccatc tgacacaatg atattcttta aggtgttaaa aatgttctat tacctttact 480  
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<210> 8880  
 <211> 654  
 <212> DNA  
 <213> Glycine max

<400> 8880

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aaagaccaaa acatccaagc tcactgaaat atttctagtt tttcttgtaa taacttgtct   180
agaggtataa caatagcaac aacaaaagtt ttatcccacc aagtgagatc agttacatga   240
atcgcacaa accaacttct ttcgatgttc ttctagtctc cctatcctcc ttttcatggg   300
gcaaaaaacc atgcaatatg ctctcctcac tgattattcc ttggtataga ggtagctcaa   360
tccaaggaag gaattatcct ctcacagagg aaatatgctt tggatatttt ggaagagata   420
ggcatgatta attgtagacc cattgatagt cccatggatc caaatcaaaa ttttaattggt   480
gaaactaggt gaaccatatt cagatccaga aagatataga agattagttg ggaaactcat   540
ccatcttact ataaccagac ctgacatttc ctttgcagtt gggtcgatag taagttatgc   600
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<210> 8881  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<400> 8881

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ataagaggat tgatgaactt ttccaattaa agatgtgggt gtgtgtctct gatgactttg   180
acattaggca gataattatt aaaatcatca actgtgcttc agcttctacc tcagctccat   240
caattgctct tgctcaccat gaaagcatta acaacttata tattgagcag ctacaaagtc   300
agcttagaca caagctttct ggtctgacgt atttactggt cttggatgac atatggaatg   360
atgatcgtgc aaaatggata gaactaaatg atttaataaa agttgggtgca gtgggaagca   420
aaattttatt gacaacacgg agtgactcaa tttgcttaat ggtgggcact gtccccctct   480

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atgtttttaca atgcttgtct gtgtagaatt ctttgccta ttttcatt

528

<210> 8882  
<211> 313  
<212> DNA  
<213> Glycine max

<400> 8882

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tgtgaaaggc atacactcgt aaacaatact aaggaaatgg tcatcaaaac ccaaaccct 180  
caaagtgtga atgacaaaat ctactaaat gctatcatat gccttctcta gaacaacttt 240  
gatcgccata aacccttttc tccctttaga tcttctcgtc ttatggaaaa cttcttgagc 300  
catattacca tta 313

<210> 8883  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8883

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acattattgt cgntngaatt agctcagagc ttcagaattc aatntcgatg gtctcgatat 120  
attacggggtc tcaatcagac atctgagnta aaaaagttat tatcgtttga agttgctgag 180  
agcttcaaca ttcaatttcg agcgtctcga tgtattacgg gacttaatca gacatccgag 240  
taaaaagtta tcgtcgtttg aattttgggtc agagcttcaa cattcagtct agagcgggtc 300  
gatatattac cgggactcaa tcagacatcc gagtaaaaag ttattgtccg ttgaaaatcc 360  
tcagagcttc ggtattcaat ttcgagcgtc ttgatatt accggactca at 412

<210> 8884  
<211> 450  
<212> DNA  
<213> Glycine max

<400> 8884

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atatatcgag acgctcgaaa ttgaatgatg atggctggtg caaattgaaa cgacaataac 120  
 tatttactct gatgtctgac tgagtcctcg aatatatcga gacgctcgaa attgaatctt 180  
 gatgctctga gcaaattcaa acgacaataa ctttttactt ggatgtctga ttgagtcctg 240  
 tgatatatcg agacgctcga aatttaatac gaaagctatg agcaaattca aacgacaata 300  
 attttttact cggatgtctg attgaatctc gcaatatatc gacacgctct aaattgaaatg 360  
 ttgatgctct ggtcgtatct aaacgacaat aatttttccg gcagcattgc acaattatct 420  
 acaatccctg gtcgatatta tttatttatg 450

<210> 8885  
 <211> 595  
 <212> DNA  
 <213> Glycine max

<400> 8885  
 agcttgctta agcaaggaag ttgcgatagg cctatgtcca tatccgaata taaaagaccc 60  
 gaggtgcaat agaagaggta ttttggtgct attcagacaa caacattatt cccaaggctc 120  
 ttagtcttga tttattacat gtttgatgc ttgatcgtga gaattgtaat caagctctga 180  
 gtatgaatc ttttcatttg tcgggggttg ataggctaaa cttaatttcg tgtaatactc 240  
 ttttttaata tagttattca tatttattac tcttcttctt ctcttaatgc ttgttttaga 300  
 ttgatcacat gttatttaat attacgaatt gatagtttag ttggtagaca ctcgtttgat 360  
 tcttgaactg agaataatac ctaatgggat tgattctaga catagttcaa ttttaattag 420  
 actcccttaa ttcttaaca ttaatgtag ttatttagat tgattttcta agacattagg 480  
 aattaatcta aataacttag acttttcacc taaggcatta tggttggaat ataactgtga 540  
 attatggata aattgcgtga attactagat tgatcaggat ttttgtattg aaaaa 595

<210> 8886  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<400> 8886  
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 atcattgtca tcattttttt tcgtcattga ggtgccactt aagctgccag gtctctccac 120

ctttgggcgt attctttgaa agatctgtgc ccttttttgc acatgttctg ttgttgcac 180  
ctatccggaa ccatatccaa attgtgctaa tactgcctaa cgaaggcaaa cattatgtcc 240  
ttccaagagt ggactcgaga aggttccagg ttggtgtacc aggtaatagc taccacagta 300  
agattttctt ggaaggaatg tatcagcaat tcctcatctt ttgcgtatgc ccccatcttc 360  
cgataatata tcttttagatg gttcttgggg caagtagtcc ccttgtactt gtcaaagttc 420  
agttccttga acttgggagg gatgacgata ttgggttcta gggacaactc ttctaggtta 480  
gcaatggcct taatttttac attcttcaat ggccctggac ctttcctcta gatgatccaa 540  
ctttcctatt tctgtcat 558

<210> 8887  
<211> 623  
<212> DNA  
<213> Glycine max

<400> 8887

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ccatacaagg atgatttact ttgtgtggca tgtccaaagg gaaaacaaat caaaaactcc 120  
ttttcaagta aaaacattat ttccacctca acacatctaa acttggttaca tcttgatag 180  
tttggcttag ctagaacaac atccataagt ggaaagaagt atgaacttgt catagtggac 240  
gactactcta gatgttgaat tagagtgtt gaagatttga agactagtct taggatcttt 300  
tgattttaat aattttgcat tgccaaacat atttctaaag ttatggaatt tttattggat 360  
gttcttagac ttggcatgtt gagtgtttta ggcttttttg ttatcaaaca tgagaagata 420  
taaaaagttt ctaagaggca ataagttcaa cactgtgtaa tagattactg agtttaagta 480  
atcaattaca aagtattaga acaagaaaca aaacttacct ctcttgaaat attggcaagt 540  
tttatcgaaa taactgatta ctaaattttg taatcaatta ccacttattg aataaattaa 600  
atgcatctat aacttatgag etc 623

<210> 8888  
<211> 626  
<212> DNA  
<213> Glycine max

<400> 8888

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gcaattaggt gtaacagata tccatgcaag aaattgtagt gtggggtaca aaccactgta 120  
tatttatcat atgattatta atgtgtactc ttctaaatta actaatacag ctaggataag 180  
taccaacttg gttactggaa atatattatt tcgttatttt atggagcact tattagtggc 240  
ttgtacaggg tacaactttt attttatatg tcacttgaaa ttgttatttg catgtaactt 300  
tacaaataaa actgaaattg gttggataat gtagtgacat gactactgtt gaagattatg 360  
ataaggggag atgacttccc ttcaaaattt gactgggttg atgttccata tatgtcttat 420  
ctgttgactc gctctaaatc tggacaaata ttactcttca gtaactggag agaaacaggg 480  
tgaatgatct tatatgggtg atttgttcta taattgaatc tccaatttat aattaaaatt 540  
gagtcaagct ctacagcatg attattcatc tactcttaaa atatgtaatt actggtgacc 600  
atacaatcaa tattgaattt tattttt 626

<210> 8889  
<211> 339  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8889

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aattaagata ttacaaacta tttccccaat aaaaattcta tttcactttc tattcaagtt 120  
acaaattccc ttaacaatga attccttaaa taatgattca natagaacaa tttgaatata 180  
aatataaaaa aataatagat aaaagagggt aagggaagag aaagtgaana ctgagaatta 240  
tactggctcg gncacacnct tgtgcctacg tccagtcccc aagcaaccgc ctggagaagt 300  
ccactatctt gtaaaatcct tctacacgtg ctgaacaca 339

<210> 8890  
<211> 563  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8890

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tcatttttat catctccctt tttgtcattg ggggtgccac ttgggctgcc agatccctcc 120  
acctttgggc gtattctttg aaagattcgt gccctttctt gcacatgctc tatagttgca 180  
tcctatctgg agccatatca gaattgtact gatactgcct aacgaaggca accattaggt 240  
ccttccaaga atggactcgg gaaggttcca agttagtata ccagggtgata gctaccccag 300  
taagactttc ttggaagaaa tgcatacaaca ttttctcatc ttttgcttac gcccccatct 360  
tccgacaata cttttttagg tgattcttgg gacaagtagt ccccttgtac ttgtcanagt 420  
ccggcacctt gaacttggga gggatgatga cgttgggtac taggaacaac tcttttaggc 480  
tagcacaggc atagtctttg ccccttcaa tggccctgag cctttctct agatggtcca 540  
tcctttcctt tttccgtata cca 563

<210> 8891  
<211> 537  
<212> DNA  
<213> Glycine max

<400> 8891  
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agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120  
ggaagcgata tgtgccagct agttactcaa gggacttgaa attcaagctc taaaaactaa 180  
ccaaggcaa caagggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaataattga agaagatgag gaggttaacta tggctcgatt tcttaatgga ttgactaatg 300  
atatccggga tattgatgag ctgcaggagt ttgtagaaat ggatgatttg cttcaciaaag 360  
caatccaagt agaaaaacaa ttaataagga ggggagtggc taaaaggagt ttaccaact 420  
ttggttcttt taattggaaa gacaaaggta agaaagatgg ggctgctact tctaatagat 480  
ccacacctac ccatacaaa attcgtttca agtgcctaaa gggacccttt aaaagga 537

<210> 8892  
<211> 231  
<212> DNA  
<213> Glycine max

<400> 8892  
ctagtatgtc atgcaggatg tgtctgtttt tattgatagt gtctgcctct catcaataag 60



accagatatc acttgtctca atctatttgc tcataactta gctatcagct tgtacataca 120  
 tcccatcaag gagaatgggc tgtagtcac aaatgactgg cgatgttttag ttttgggaat 180  
 tagagctatg aaagaagcat aactgcttct aggtagctgt catgcacatg g 231

<210> 8893  
 <211> 593  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8893

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 ccttttccat tttcataccg gaaaagtttag aactttttaga taccttagga atgacatcat 180  
 tagagtcttc aatgtattct ccctcttccc aacatatcaa gtcataataa acctcaactt 240  
 ccgcagtgat tgttgtatat caccttggag atcctttgct aattaacaac ccctgtaagc 300  
 tcagagggtt gcacttaatt ctaattgagt gacctttata ccctgagaat attagtaatt 360  
 ggaaggatat tttatatcat atctcctcta ttatattaaa attaagacag atgattaatt 420  
 atatctatta ttgaacanat ctctcttta aaatattaaa gttattgagc attctatgac 480  
 acctttcttt atttaattta tcaactattgt tttaaagtat taagaatata tatatttagt 540  
 gagatatctt tatttaataa atataatatt atgatatata gtattaacat tat 593

<210> 8894  
 <211> 577  
 <212> DNA  
 <213> Glycine max  
 <400> 8894

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 ttcacccgaa gaagacactg aaaaaaactt atcttctcct ttttggacaa agtatggcaa 120  
 gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtatgcc 180  
 atataagcta gatcttgacg agtattcaag ccaccttcg tcttgccctg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctccatat gcataacatc aatacaatgt 300

ctaacgtcaa gatcagacca gtacggaaga tcaaagaaaa tgaacctctt cttccataag 360  
 caaatcttac ttttatcctt cttttgggtc tttccaaata cagtattcag gtgttgaacc 420  
 cgctgatata ccttctcacc agtcaatggt atcggcacia tatcgtgctc ttgacttcca 480  
 ttaaaagcct ttttttagtcg tctgtaagga tgattgggtg ttagaaaacg gtgatgccta 540  
 ctatagacta ttattcttcc atgttatagt tgtatgt 577

<210> 8895  
 <211> 511  
 <212> DNA  
 <213> Glycine max  
 <400> 8895

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 ttatatcgag acgctcgaaa ttgacaatat atcgagacgc tcgtaattga aaccaaagtc 120  
 tcgaagcaaa ttcaaacgac aataactttt tactcggatg ttcgaatgaa tcccataata 180  
 tatcaagacg ctcgtatttg aaaacataag ctctaagcat attctaata taataacttt 240  
 ttactcggat gtcggattga gtcccgtaat atatcgagac gcccgtaatt gaaaacggat 300  
 gctcgtagca aattcaaag acaatatcga gatgctcgaa attgagcaat ggaagctctt 360  
 gagcaattca aatggtcata actttttattt cggagggtccg attgaggcgc ataatatatc 420  
 gagacgctcg aaattgaaca atggaagctc ttgagcaaat caaatgggtca taacttttca 480  
 ctcggatgct cgattcaggg cacataatat a 511

<210> 8896  
 <211> 510  
 <212> DNA  
 <213> Glycine max  
 <400> 8896

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 tgggctaataa gggtttcata ctcaacttta ttattcgtca tctcaaactc gaaccttagg 120  
 gattgctcta tgattacttc acctatgctt tctaggatga ctccagccct actccctttt 180  
 ttcattggat gaaccatcta cgtatagctt ccacctctca gattatgggt ctgtagtggt 240  
 tgtcattttg gctatgaagt ttgctaggca ctacgccttc attggaccta ttggctcata 300

tttaagccta aacttggaca acttgatcga tcaggctatc attcgactcg tgagttctgg 360  
 tttcttcata actgttcaga taggggtggtc agttcaaacc acaatctaata gacttttgga 420  
 agaaagatgg gcttagtctc cctacaattg tgactagagc ccaaggctaa cttttcatta 480  
 tttgatatca tggctctgca ttttttagga 510

<210> 8897  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 8897

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 ttacttgaca aattaggggt tagggttact tgacaaattc gggtttaagg gtatttgact 120  
 aatgaggggt tatgtgtagt tgattaatta gggtttagtg ttacttggct agttaggggt 180  
 tgggttatctt gaaaaaatag ggttgcttga ctaattgggt ttaggggtat ttgacaaata 240  
 aggggttaag gttacttgac aaattcaggt ttaagggtat ttgactaatg agggtttggt 300  
 ggtagttgac taattatagt ttattgttat ttgataaatt ggggtttatg acacttttat 360  
 taatctt 367

<210> 8898  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 8898

atccttccag ccgaccgca ggcattgcaag ctttttagca attcaaattg tcatttcgct 60  
 aactcggat gtcggattca agcgcataat atattgagac gtcgaaatt gaacaattga 120  
 agctcttgag caattacaat gggcataact tttaactcgg agggccgctt cacgcgcata 180  
 atattttgag acgttctaac ttgaacaaag gaatctcttg acaattcaa attgtcataa 240  
 ctttttactc ggaggttgga ttcaggcaca taatatctct agacgcttga aagtgaacaa 300  
 aggaagctct tgagcaacac aaat 324

<210> 8899  
 <211> 366  
 <212> DNA

<213> Glycine max

<400> 8899

ataaaagcta aaactaggaa ctaggatgtt tgattttgtg acacaaaaaa ataaggcgct 60  
cgaaaatgaa cagcggaagc tcccgagaaa cacgaatggt caaacattt cactcggatg 120  
actgattaga ggacacaaca taacgaagac gcataaaaat gaacagcgga agcttccgag 180  
aaaatagaat ggacatacac ttacacacgg aagtccgaca cggcgataga atatatcgag 240  
actctcgaaa tagaacaatg gaagcgcttg agaaaaacga atggccataa catttaaaac 300  
ggatgactga accgtggaca taataaacag agacgctcga aattgaacag cggaagctca 360  
cgagaa 366

<210> 8900

<211> 458

<212> DNA

<213> Glycine max

<400> 8900

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cttggttaagc ttaaaggatc ccctttgttg gcctataata gaggactgtc tctgaggctg 120  
aagtcgcacc atgaccaaat ctctatgtc aaaatggaca tctctacact tcctgtcagg 180  
tgtgtgattc attgccagat gggccttctg aagcttcttc tttatttcag cacaaataga 240  
ttctctatct gataagaact catccactgc ctccactttc gacgagcctg taatatacca 300  
tgacaagatt ggtggtttcc tcccaaaagt aattttgaat ggtgaaacac ctaagcctga 360  
gtgttgcgac gtgtttgtag accattttac ctatttaaga agcttgcccc aagaagaatg 420  
tttcttttgg acgacggcat gcatgtattg ttcatca 458

<210> 8901

<211> 380

<212> DNA

<213> Glycine max

<400> 8901

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atagtcttct gcataccacc atatagatct ctatccttct ttgcagcaat ctggagtcaa 120

tgagcaacct gaagcttatg ctgccaatat ttataataga cctcctcagc agcaaaacca 180  
acaacagcag aataattatg accttctcag caacagatac aatccacgtt ggaggaatca 240  
tccaaatcta agatggacaa gtcctttaca acaacctcag cctgtccctt ctttccagaa 300  
tgttgctagt tcaagcaagc cttatgttcc tctacaatg cagcaactac agcagtcaca 360  
acatagacaa caagcaactg 380

<210> 8902  
<211> 531  
<212> DNA  
<213> Glycine max  
<400> 8902

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ttaacaactt ccgtttgccc atcggtttgt gggtgacaag tggttgaaaa taacaattta 120  
gtgcccact tgctccacaa agtcctcaa aaatgcaaat catcaagcct aggtatagga 180  
tgccctatatt taatgggtgat gttattaagg gctctactat cagaacacat gcgccatgtc 240  
ccatcctttt tagggaccaa aatcactggg acagcacaag gactcactat atctcttacc 300  
caacctttgc taatgagttc atccacttgt ctttgaatct ctttggtttc ttgagaatta 360  
cttctatagg ctggcctatt gggcaaagaa gctcccgaa tgagatcaat ttgatgctca 420  
attccctca gaggtggtag tccacttggc acatttggat cctgcaaaag agttttaaca 480  
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<210> 8903  
<211> 604  
<212> DNA  
<213> Glycine max  
<400> 8903

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acaaaattca atttcaaatt tatgtgaaat ttgaatagaa attcaaattt ccctccaatt 180  
ttgtgtgaca cttaggctat aaatagaggc catgtgtgtg cattttttga actttgataa 240  
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tcccttccct catcttttcc tctttcaagc tcttatccat ggctttctac ggtggtgagc 360  
 ttgtgcttga ctcatcttct tcttgaagtg gcatctccaa ttatctttct tccatatcca 420  
 ttccactgcc atgatcttta agaatcaaag gactccattg atgaagaaga tccaaggcct 480  
 accagctcca catggagcta catcatgtga tatcaagagc attttcatct aggtgatgtt 540  
 cttttgcttc ctctatcctt ttggtcagtc aattcacttt aattccttgg tcttaatctt 600  
 attc 604

<210> 8904  
 <211> 613  
 <212> DNA  
 <213> Glycine max

<400> 8904

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 tatttgatta atcacacca cgtttcaaac tttcatgggtg aagtcacca taatatcttg 180  
 ttaogtttga agattctttc atctccattt gattataaga gattcaatag tgagatttta 240  
 cttcattctc aactaggggtt cgttccaaat acctatatta gtaccatttc ccaactttca 300  
 tttatatcct ttctttatga ccattttaga agagaacata cttcaccatg taaatgatgg 360  
 gttgtgcctt actaaagctt ccatacactc ttcccttaag aaatatttag ccttgatgac 420  
 tcttgacagc aaaacattta gcatagaaaa gatcctccat tattgctttc ctaaccatgg 480  
 aaagttgaaa gcaaatatat ttctaaaacc taaccctaatt ttctctttat aacacataac 540  
 cctgtccaac accatccaat ttaaccctt tctacctct ttttctctaa tccccaccaa 600  
 tctgaattta tca 613

<210> 8905  
 <211> 549  
 <212> DNA  
 <213> Glycine max

<400> 8905

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gagtataaat catagcatag agagcagtgg gtcaataata gcaatcacgg ctaaaacctg 180  
cattatattca tgaagggata agttctgcag ttcttacatt acatcaagcc aatgatataa 240  
catgacagca taccttgaga cctgcaaaaa tatatagcca gatataatta ataaaaagaa 300  
aatatagtat gatgaacctt aactaaaaat accatagaag taagattcaa tcaattgaga 360  
caaagaaact tctaacaaag aattatgaag cttcaatttt tataaccoga catacatggg 420  
ataaagtaca attaatatta aaatgaacag atacttcaat gataatgaaa agatacttgc 480  
tgtataatca aatttgcaac gagcagaaaa caaagaagg ataggaaaaa agtcccgtct 540  
ttgcttggg 549

<210> 8906  
<211> 373  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8906

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ctaatacagg ttagtggttg ggatgatgta gttaacatgc atgactttgt tcangacatg 180  
ggcaagcgaa tagaccaaga ttcctcataa gatccagga agcgaacgag attgtgggta 240  
acaaaagata taattgaagt ttataaagc aactcggtta gtgagaggat ggcttcttat 300  
cttgattgtt ttttctatct tatctttaca tcatagacaa agctttgtat gataattcgg 360  
aattttttta aca 373

<210> 8907  
<211> 588  
<212> DNA  
<213> Glycine max  
<400> 8907

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cctgggttcaa gcacgacttt ctttatgctt ttgttggctt gccttgcata gctcgcattt 120  
ttcttttcaa tttgaacctt cacttgctca tgcaactttt tcacatactc agctatagcc 180  
tgtgcactct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240

aaaggattaa atccatacac tatctcaaat ggtgaacaat tatttgtgct atggacagcc 300  
cgattataag caaactcaac atgaggcaaa caggcttccc aagatttaag attttttttt 360  
aaaacagtcc taagcagtgt gcctaaagtc ctattgacta cctcagcttg accatcagtt 420  
tgtgggtgac aagctgtaga aaacaacatt tattaccaat cttacccac acggtccttc 480  
acaagtgact aaggaatttg gatccctatc acatgcaatg ctccttggtta atccaagaag 540  
ccgccctatt tttttgaaaa actgatcagc cacatgacaa gcgtcatc 588

<210> 8908  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8908

cttctatgga atgttccaca agaatatgcc aaatgaatat tccaagaata tgccaaagaa 60  
atattccaag aatatgccaa aggggaggaa aactacacac atctcttcaa tagctaagct 120  
cacacccatg tcaaaatata cgaaaatata aaagaaagtc cctactacaa agactactca 180  
aaatgccctg aaatacaagg ctaaaaccct atactactag aatgaccaa atacaaagcc 240  
caaaagaagg aaaacctatt ctaatattta caaataagag tggaccaaac cttggcccat 300  
gggctcagaa atctaccctg aggttcatga gaatcttagg gccttcttta gcaactctag 360  
ctcaatcctc tggagtcttc tatccaatac ccttgngga taggattgca tcatccctc 420  
ccccttgaaa ag 432

<210> 8909  
<211> 392  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 8909

acttgatgcc ttggtcattc tagtaactta tctngccatg aataaaaaat ctgcacatgt 60  
tacaagagtt tgtggtctat gttcttctgc agatcatcat acagatcttt gtccttcttt 120  
gcatcaatct ggagtcaatg agaaacctga agcttatgct gcaaacattt ataatagacc 180  
tcctcagcag caaaaccaac aacagcaaaa taattatgac ttttcaagca atagatacaa 240



tccagattgg aggaatcatc caaatctgaa atggacaagt gtcataccct aatttcgtcc 300  
 ggngaccatt gtttcatggc atgcaacctt tggttgaccg cttcgaggta cttggcacc 360  
 tttgctgcac aatacttgaa gtttcgagac at 392

<210> 8910  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8910

nggctatctg attatgcagt gcctcctagt tgactagagg aacagttggt ggtcgcccac 60  
 gagcacactg cacagaaaat tcccattttg tcaaaaatgc tgcctttcct ctcaatagat 120  
 tcacaaacat gaaaacgtat atcttacttg gaaacaaagt gatgtatggt ttagctcttc 180  
 aactataagg gaacattctg atggtagcaa tgaatcccca aacataattg caccttcaat 240  
 aaaagagcat tatgattaaa ttaaaggaat actaccaaac ataattgcac cttcaataaa 300  
 agagcattat gattaaatta aaggaatact accgatgact gcaatatgcc ctcccaaaat 360  
 aaggaaatct gacaggatcg ggctgccaac agatgggggt ttcatgcata gtattgangg 420  
 aaaacaaagg taatatcata tgtttctg 448

<210> 8911  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8911

agcttggtgt ttgcgacgcc aacggagact actcaacacc atcggattca tattcatgat 60  
 cttgatcttg atcctcgtac gctgttgatg aggagcgggt tgagtggcca gtagttttga 120  
 aacggtgtag tgtggggcca gtggagtgcg ctgttgaaga attaccaatg gggcttccat 180  
 ccatgattcg tgcactcgac tttcctagcg tcaactgctc tccttgcttc ttcttcgcag 240  
 ccatgtgcca tttcttcaga gccttggttg tttgctcgtc aaatattgct gntttcatcc 300  
 ttgaacccat ctgctgtgat gtatgtgtgt gtttacagtg atacattgtc gtcaattaga 360  
 ccaattcaaa cgtttatagc ttgcaaaagt aaatcgtgta atattaca 408

<210> 8912  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 8912

attatgcgct tgaatcggac ttccgtgtgt aaagttatga ccattggaat ttctcgagag 60  
 cttccaatgt tcaatttcga gcgtctcgat atattatgca cctgaatcgg acttccgtgt 120  
 gacaagttat gaccatttga atttctcgac accatacggg gttcaatttc gagcgtctcg 180  
 atatattatg cgcttgaatc ggacgtccgt gtgacaagtt atgaccattt gattttctcg 240  
 agagcttccg ttgttcaatt tcgagcttct cgatatatta tgcgcctgaa tcggactttc 300  
 gtgtgacaag ttatgaccat ttgaatttct cgagagcgtt cgatgttcaa tttcgagcgt 360  
 cttgatatat tatgcgcctg aatcggac 388

<210> 8913  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 8913

agcttctaga tatattatgc gccggaatca gacttccgtt tcaaaagtta tggccatatg 60  
 aatttctcga gagcattcgt tgctcaattt cgagcgtctc gatatagtct gcgcgttaat 120  
 cggacttccg tgtgacaagt tatgaccatt tgaattactc gagggcttcc gttgttcaat 180  
 ttcaagcttc tcgatatatt atgcgcctga attagacttc cgttacatag gtatgaccat 240  
 atgaattgct cgagagcctt cgttgatcaa tttcgagcgt cttgatatta tatgcgcctg 300  
 aatcagactt tctggtgata tgttatgacc actttaatt 339

<210> 8914  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 8914

acctgctcat atactagacc ttctacatta atgttgctct caagaggctt gaagggttga 60  
 gaaccttggc agaaggaacc aaggcaatca tcaacttggg tctcgaaaag gttcctgtcc 120

ctggagagtc tggttttcca tttccgggcc ttttccctct tcttcaatca cacaaggaag 180  
caggtgaatc ctgtcatcac tattctttca tcttgatttt cttatgagca gatgcataat 240  
taagcttagt tcaatcatat atatagtcaa tatgttagta gttagcttta gatttaatta 300  
ctcatttagt ccttacagct acacaaactt taccttttta gtttttatac ttaagaatta 360  
tccatattgg tccctaccca tacaattttt aatccggtga tataattttt atccctttt 419

<210> 8915  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 8915

agcttgtaag gttaaagtct cacgattgtc acgtgctcat gcaacaattg ttagccgtgg 60  
ctatacgaga catctttcca aacaaagtca ggtagccat aactcgctg tgctttttct 120  
tccatgctat atgtagctaa gtcattgac ctgtgaagtt tgatgagctg gaaaatgagg 180  
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatcta gtcagagaaa tcaaatgttg tgggccagtt tatctacggt 300  
ggatgtaccc ggttgagcga tacatgaaga tcttaaaggg tatacaaaaa atcta 355

<210> 8916  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 8916

atgatgcaac tgaggtagga gctattttca tgcactctct ctaatgatta tggcatcata 60  
tctggcgcta aactgctgag agttggaagc catcttctca attaaatttc tggttcagc 120  
aagagtcatg tttccaaagg ctccaccact ggcagcatct atcatacttc tctccatatt 180  
actgagttct tcataaaaaat attggagaag aagctgctcc gaaatctgat ggtgagggca 240  
actggcacac agtttttttaa atcgtctcca gtactcatac aggctctct cactgagttg 300  
tctaatacct gagatatctt tcctaattggc ttgggtcctg gaagcagggg aaattttttc 360  
taagaatact ctcttaaggt catcccagct cgtgatggac ctttgagcaa ggtaatacag 420  
ccagtc 426

<210> 8917  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8917

agctttgaat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60  
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 gaagatttcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgcct gcactgcctt 240  
 gggagagagg ataacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg aaagtcactg caatagagga ggcccaagac attngcaaca tgagagtaga 360  
 tgaactcatt ggttctcttc aaacctttga gctatgactc tcggataggg ctg 413

<210> 8918  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 8918

agctgggttaa aattgactta aaatcatctc tgtgcactag tgatagatac cataatttca 60  
 ttttgttcct taacctttga attgttggtg aattttatct cttcaaatta aagtgcata 120  
 ttttacatcc aactttaaaa aacttggtgaa ttttatccct agttaattat ccattaaaag 180  
 cttgtcataa aaaagttagg agtaaat tttt accaaaataa ataaaaaaca atgggggtaa 240  
 aaaaatgagg agtttagaat aaaaagtgca attatgtcta aagtataaaa acaagggtt 300  
 aaatttgcac aattcttaaa attcatgggt aaaatcttc 339

<210> 8919  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8919

ggagaattga ctaagaaatc actacgcana gcttcaaact cgaagggtgga ggacacatga 60

acgaaaaacgc aattcatggg ctctataaaa ggggtggagaa tggagaattg cactaagcaa 120  
 tcactacgca tgggtccaaa ctggaagggtg gaggacacat gaacccaaaac gcaattcatg 180  
 gggctgcgaa aaagggggttg agaattggaga attgaactaa gcaatcacta cgcattggctc 240  
 cataactcgaa ggtggaggac gcatgaacga aaactcaatc catgggtgctc cgaaaaaggt 300  
 gagaatggag aatngcacta agaaatcact acgcaaagct tcaaactcga aggtggaggt 360  
 cacatgaacg aaaatt 376

<210> 8920  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 8920

tgagaatgga gaattgcact aagcaatcac tacgcatatc tccaaactcg aaggtggagg 60  
 acacatgaac gaaaacacaa ttcatggggc tccgaaaaag ggggttgagaa tggagaatta 120  
 cactaagcaa tcactacgca tagctccaaa ctggaagggtg gaggacacat gaacgataac 180  
 gcaattcatg gggctccgaa aagattgaga atggagaatt gcactacgca atcactacgc 240  
 atagctccaa acgcaagggt ggaggacaca tgaatgaaaa cgcaattcat ggggtccga 300  
 aaagattgag aatggagaat tgcactaagc aatcactacg catagctcca aactcgaagg 360  
 tggaggacac atgaat 376

<210> 8921  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8921

gatacagggg tgcccagtga ggctgttaag cgggttgagt agtccatggg agttgaggcg 60  
 ggctcgagaag caaacatgcc tgagtcagac aatatatcca agacatattt tcattgagat 120  
 aagtgaatgc ctttgttatt gcgagcaact tcaaggccga gaaagaactt taagggtgcta 180  
 aggtccttaa tgctgaaagc tgtatcaaga aggtttgtga tatgtgtgat ggtgtcgaga 240  
 ttgttacctg ctaggattat atcatcaacg tatacgagaa cagcagtgat atcatgggta 300

tggaagtgga gaaagagggg atgatctgtt gtagattgac ggaagtcgtg ggagatgagg 360  
aaagaagaga gtcgtgtgaa ccattgacga ctggcttgtt tcanaccata taatgaaca 419

<210> 8922  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 8922

agcttatggc ggcaaagggg aagctatcat gcctcaagca tgttgatggt ggtgcttgtg 60  
aacattgtat ccttggaag cagaaaaagg tcagtttctc aagggcaggg aagactctga 120  
aagctgaaaa gctagaattg gtgcacacag atgtttgggg gccagcccca gtgaaatctg 180  
ttggaaactc acgctattat gtcaccttta tcgacgactc taccagaaag gtatgagttt 240  
atcttcttaa aaataaatct gatgtgtttt ctgtgtttta aaggtggaag acagaagtgt 300  
aaaatcagac aggtctaaag gttaaaagtc tgaaatctga caatgggtggg gagtatgata 360  
gtcaggaagt taaagacttc tgttcagaac atgggatcag aatgatcaag acaataccaa 420  
gaacacctg 429

<210> 8923  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 8923

agcttaccac ctctcccatc atgcaacctc cgatttgaga gcttccattt gagatcatgt 60  
gtgatgcctc taattatgca cttgggggtt tttttgtcgt agagagttaa tagactatca 120  
cacatcattg cttatgtatc acgcactcta gatgtagcct aagtcaacta cagcaccacc 180  
acaaaggagc ttttagctat tgtttttgca tgagataaat taagatctta tttgctttgc 240  
tcccatatta ctgtctatac tggccatgca gccttgaggt acctattgaa gaagcttgat 300  
gctaaattca gattgatcag atggatgctt cttcttttagg agtttgatat tgagagcaga 360  
gacaagaatg gagcagaaaa ctcggtggct ggatcattga gcatgattga gggacgtgac 420

<210> 8924  
<211> 417  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8924

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ttcggggaaa taatatatcg agacgcacga aattgaacaa cggaagctct cgagaaantt 120  
gaatggtcat aacatttcac tcggatgttc gatccgggga cataatttat cgagacgctc 180  
gaaattgaac aaccgaagct ctcgacaaat tagaatgggtc gtaacttttc acgcgaatgt 240  
tcgattcggg gacataactc atctagacgc tcgaaattga acaacggaag ctctcgagaa 300  
atttgaatgg tcataagttt tcacacggat gtccgattcg ggaacataat atatcgagac 360  
gatcgaaatt gaacaacgga agctctcgag aaaatcgaat ggtcataacg tttcaca 417

<210> 8925

<211> 229

<212> DNA

<213> Glycine max

<400> 8925

cccatTTata actacgatgc gaaacagatt tatgtcctat gggatatgaag aactggaata 60  
tacatgcatg cccaatgat tgcattcatt acataaatta gatttttgaa gatgtcacat 120  
gccccacacg cgggtgatca catttcaaag tgaaagatga taaatgtagt gatgaggcaa 180  
cctcatgcaa caaccatcca acaaagggtgt gctgggtatct ttcaattat 229

<210> 8926

<211> 365

<212> DNA

<213> Glycine max

<400> 8926

tgtagacatg caagcttcac acaatttatt tttcccaaac ttgagttttg gaagatcaat 60  
tactaagtct ttccctaacta gatgattgag atgatgcatg tttatgtgtg cagttctacg 120  
atgccacaac catgaatcat ttatcttact taccaaacag atcaactcat gaaatgatgc 180  
atgttcaatg tttaacatat agatattacc tattctcttg ccaatatgga caacatcaca 240  
gagcatagct tcactagtaa gacaaaaatt cttgttgaat tcaattttga agcctttgtc 300  
acatagttga ctaatgctca ggagggtatg ctttagttca tcaacatata gaacattctc 360

tatttt

365

<210> 8927  
<211> 414  
<212> DNA  
<213> Glycine max  
  
<400> 8927

cttcatgctt aagtatgtat ggcaaaactt cattactgtt gatcaagaca tacaagtgag 60  
cttghtaaca atgttctaca cttggagtga tcacatgcag tcctcttgaa cccttaccac 120  
ccactctgtc atcatgccaa gactcaggaa ggccaacagg tttagccttc tctaagtatt 180  
ttgaacaaaa ttcaatggct tcttctgcaa tgtacctctc aacaatagac gcttctggac 240  
gatatagatt ctttgtatac ccttttaaga tcttcatgta tcgctcaacc gggtagatcc 300  
accgtagata aacaggacca caacatttga tttctctgac caaatgcaca atcatgtgaa 360  
tcatgatgtc aaagaaagca aggggaaaat acatctccaa ctggcacagt ataa 414

<210> 8928  
<211> 361  
<212> DNA  
<213> Glycine max  
  
<400> 8928

tagagcacct cctttcttac ctcttccttc atcgggtggat tcaaccgcct ctaggtttgt 60  
cggactgggt tgtagtcttc ttccatcatt atcctgtgca tgcagtaagc agggttgatt 120  
cctttgagat ccgatatgtg ccatccaatt gctttcttgt gtttcttcag aatgtctacc 180  
aacctgtttt cttcttctgt tgtgagtgca ttactgatca ctataggctt atcttctcc 240  
aagaacatat acttcagatg attgggcaat atcttcaact ctaccttctt cttctcggac 300  
gaaacttcct tcttttagtgt ctcaaatcg gcttctccct caggaatact gtcttgatga 360  
t 361

<210> 8929  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<400> 8929



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aattagttga tttcaaacaa aatgtgagga taaagaaaat attgtagaca accttccaat 120  
gatgcaacaa tgcccctgaa attttttgcc ccaagcttgt gtagatcctc agcaacctag 180  
attggatata tgcaaacatt tatccctaga accacaacag cgcccaatgc aatgagaaaa 240  
atctatcaac agctgtttca acaaactctc ctgtatgata ccctgataaa taatatagca 300  
ataggtgatc aagaacacac gaaaaccata ttcacaagct ttcattggtg gatattgttt 360  
tgcataatgtg gcacaaaatc ctaccactca cacgtcataa tcct 404

<210> 8930  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 8930  
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aaatctgtac ctgtcgcaag ggtttgtggt ttgtgctcct ctgtgacca ccatacagac 120  
ctttgccctt ccatgcagca acctggagca attgagcagc ctgaagctta tgctacaaat 180  
atttacaata gacctcctca acctcagcag caaatcaac cacagcagaa caattatgac 240  
ctctccagca acagatacaa ccctggatgg aggaatcacc ctaacctcag atggtccatc 300  
cctcagcaac aacaacaaca acctgtcct tcctttcaaa atgttgctgg cccaagcaga 360  
ccatacatc ctccaccaat ccaacaacag caacaacccc 400

<210> 8931  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8931

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cacagtggcc aaggatgcgt gggagatcct gaaaaccact catgaaggaa cctccaaggt 120  
aaagatgtcc agactgcaac tattggctac aaaattcgaa aatctgaaga tgaaggagga 180  
agaatgcatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240

gggagagaag atgacacatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300  
 atatgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtgga 360  
 tgaactcatt ggttcccttc atacctttga gctaggactc tcggataggg ctgaaa 416

<210> 8932  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8932

cagaccaagc ttggaaagat tatcaccatc atttagtata catcgttcat aatgggccac 60  
 cacttgaaaag agggcttgca ccagcgtaga ttttccattc cctgtcctgt ctactatacc 120  
 aattttcttt tgtcctgaga agatacaagt aacatctttg aggaccatag gagcagcagg 180  
 gtcattctgt atatgaaggc tatgaagttc aacttttccc tcctttggcc actctgggtc 240  
 aggcctgcaa tcttgaatgg tagaccttgg caaagtaacg aagatggctc aagaacaaaa 300  
 tacaagacca tattgaagag gaaatngatt ctgacagaca accattccaa gctgccaaaa 360  
 ttgtaaaagg ccacctgaga ataatcatca attagagcct taactttgat caagaatag 419

<210> 8933  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 8933

acctgtggca tgcaagcttc taaacaaatt tattcaagca aatgaaattt gagaaatcca 60  
 gaacacatca aaagatgaaa caagaagaat atagggttgt ttggataaac aactataaaa 120  
 gggcttattg aataagtatt tatcatgtaa gcacttgtat agtttttata atcaaaaaag 180  
 aaataggctt aaactatttt catataagtt gtaaggttgt tttcataata ttttggagag 240  
 gttactgaaa taagctaaaa ataacttatg aagataacat tagttatttt cataagcttt 300  
 ctaaaacact tacacaagtg cttatatagt tatatcataa gataagtcca aataagtagt 360  
 aaataaggct ttccaagcat acccttaagt tattgaattt gagagaatta aattaacaaa 420  
 ataaaatagt caaaggacaa taaaat 446

<210> 8934  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 8934

gtaccttggtc attatgtggtt acatggaata tcactaatat gagattatcg tatgggtggct 60  
 acctagctaa gggagaaatt tctgagtcaa tctgtaatga agtcaattca attgtagttc 120  
 ttgtttctttt gtcattgtgtc tgatccattt atgaagatag gcatttccttt agctctggca 180  
 atattttggct tatgtctgggt cttttcagct gcagttggta aaatgcaaga caaggcaatc 240  
 tctacagctt tccatgcaga attgacattg aatgcttcct ttaacttcgg atcaacaatg 300  
 ttatgaatat ctctcttttc aactatggga ataaccatt caaggatgtg aatatttttt 360  
 caggcgtcct tgata 375

<210> 8935  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8935

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 ggccttgatt ntctcagggt ccacttggac cccattttcta ccaactacaa aacctaagaa 120  
 aactatatta tctacacaaa aggtacactt ctctatatatt gcatagaggg tgtttttcct 180  
 aaggactgaa agaacttggtc tgagatgtcc taagtgatca tctagcctcc tactatacac 240  
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
 cataagcctc ataaagggtgc ttgggtgcatt agtgagccca aaaggcatca ctagccattc 360  
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 ttgggtgataa ccacttttta 439

<210> 8936  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 8936

agcttgcaca gtttttatta ggtattaatt gttctgcata tctaacaatc gtgggttttaa 60  
attgctgttg tegtgtcgat ccttgacatt gcgtgaaaat gtgtttgtca tgatttggtt 120  
gcagagaatc gtaaaatcctt tatgttgcgg tgcgaattgt gggtatatat ggatcatgat 180  
ttaaaacccat actaacaatt ttgcgctttg tgtttatcaa tgcattaatt gatgattgaa 240  
tgtgaaaatt aatagaagtt tttggcaatg tagggcaatg agaggctcca acaactcaag 300  
aaggggctta tcaaaccaat acgatgggcc atgcaaggcg acaaacccca ttgacaaatg 360  
ttggagatgt gaccccaatt ggga 384

<210> 8937  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 8937  
agcttgttac tactattaga tagctactaa tactattgca aactgtaatt gtttttttaa 60  
cttaattata ttacacttgt ttatgtatgt gtttttctct tgacttaaata ataattttgg 120  
tcattttatt ttactcaata cgtaattttg gtctctctat tttaaaatta aaatatttga 180  
tactcctatt tttaaaaatc tacaattttg gtctctctat tttaaaatac aaacattttg 240  
tccctatatt ttaaaaaatt cataatcttg attctcatat tatagaaaat tcacaatttt 300  
ggtttaatat ataatttttc ctatgtatta tttcttttat tttttacttt gcagttaatt 360  
aaatcatttc ttgatgatat cttaaatgaa tatgtagatc tacgatttaa tta 413

<210> 8938  
<211> 292  
<212> DNA  
<213> Glycine max

<400> 8938  
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atatatctag acgctcgaaa tggaatactg aagctctgag caaattcaaa cgacaatgac 180  
tatttactct gatgtccgaa tgagtccgc aatatatcgg aacgcttgaa atgggtatgtg 240  
gaagctctga gcaaaatcaa acgacaataa atttttactc ggatgtctga tt 292

<210> 8939  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 8939

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 taaaaagata ttgttgctcg aatttgctca gagcttctgc attccatttc tagcgtttcg 180  
 atcattttacg ggactcaatc ttacatccga ataaaaagat attgtagttt gaatatgctc 240  
 aaagcttcggg tattccattt cgagctcctc taagtattac gggactcaat catacatccg 300  
 agtaaaaagt tattgtcggt tgaatatgct cagagccttt acattcacat tcgagcgtgt 360  
 cgatatatta ccggactcaa tcagaca 387

<210> 8940  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 8940

ccaccacaca gacctttgcc cttctgtgca acaatctaaa gcaattgaac agcctgaagc 60  
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 gaataattat gacctctctc cagcaacagg tacaatcccg gatggaggaa tcatcccaat 180  
 cttagatggg cgaatccttc acaacagcaa caacaacaac aacatactta ttttcaaaat 240  
 gttgttggcc caagtagatc atacattcct ccaccaatct agtagcaaca acagcaacag 300  
 cccc 304

<210> 8941  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8941

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gataaaaaaa catgaaaata caaaacaaat cctactacaa agactactca aaatgccctg 180  
 aaatacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc caaaataaga 240  
 aaacaaccta ttctactatt tacaaagaag agtggaccca accttggccc atgggctcaa 300  
 aaatctaccc taaggttcat gagaatccta aggccttctt tatcaactct agcccaatcc 360  
 tcttggagcc tcttgctcat ggctctg 387

<210> 8942  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8942

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 acacggatgt tcgattcggg gacataatat atcgagacgc tcaaaattga acaacggaag 180  
 ctcttttagaa attcgaatgg tcattacatt tcaactcgat gttcgattcg gggacataac 240  
 tcaactagac gctcgaaatt gaacaacgga agctttcgac a 281

<210> 8943  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 8943

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 caatgaccca gaatgggtca ttgttattgg gggtttgtaca catttgggtt gcattccatt 120  
 gccaaatgct ggtgactctg ggggatgggtt ttgtccatgc catggatcac attatgatat 180  
 ttctggctga attaggaagg gaccagcacc atacaatctg gagggtccta cgtacactct 240  
 cttggaagaa acaagttgat gaatggttga aaataaaagt ggttctgcat tcaagtggga 300  
 tgagttaaca attattattt aaaaatttat ttgacaattg ttcaatgctc tt 352

<210> 8944  
 <211> 236  
 <212> DNA

<213> Glycine max

<400> 8944

aaacgataat atcttattac tcgtatgtcc gattgagtcc cgtagtatat cgagacgctc 60  
gaaattcaaa acagaagctc ttagaaaaat caatcgacaa taacttttta ctcggttgct 120  
cgattgagtc ccgtagtata tcgagacgct tgaaattcat aatagatgct ctgagcaaaa 180  
tctaaccata ataacttttt acacggatgt ccgaatgtga cccgagatat atcgag 236

<210> 8945

<211> 373

<212> DNA

<213> Glycine max

<400> 8945

taacaactag ttttactttt catttggtgg tatatactat ttttagtact gtgtactttt 60  
cattgtcaca taggtaaatt tattgacttg tatttcattt tgtacagtta aacatggaaa 120  
gagacgcagg aagggttttt aacggtttca aagaggggag ggttggtttt gctccactt 180  
acaagtattc acataattca gactcttatg ctggtgagac tgtcaagtca aagaaaaaac 240  
gccgaacgcc agcatggtat gcaagtcact tgactcttat tatataagtc actcaattaa 300  
atgactagtg ctagctagat ggcttttcag tttttaataa agataggtaa ataaaaaatt 360  
gttgacaaca ctt 373

<210> 8946

<211> 439

<212> DNA

<213> Glycine max

<400> 8946

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aggcataggg aaaagatcaa gaggagttag tgggttaaaa ccataaaciaa cttcaaaagg 120  
agaacaatta gtgggtgctat gaacagctct attgtaagca aattcaacat ggggttaaca 180  
agcttcccaa gtttttaaga tcttctcaa aactgtccta agcaaagttc ccaaagtcct 240  
attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaatat 300  
agtgcccaac ttgctccaca aagtcctcca aaaatggctt atgaacttat agtcctatc 360

actaacaatg ctccctgtgc aaccatggag tcttacaatc ttcttgaata acaaatcaac 420  
cacattggga gcatcatca 439

<210> 8947  
<211> 343  
<212> DNA  
<213> Glycine max  
  
<400> 8947

agcttggatg caacatcttg gtcaaagata ttgcatgtta agaccttctt aagttttcga 60  
caggatcatgt aagggaagcg aattaaacgg gcaagtcgtg tacccaagac ttctcttctc 120  
tcttctagat tcgggtactg tgttcgaacc cacttcaaca caaagtcata taccgcatcc 180  
tctgatgcaa cctgaagttc gtcactagac aatattgctt ctattccagc tagaggcaag 240  
cccataacct ctctctggaa cctggatcatg gtcatatgtg aaacttatta gcgttcaaaa 300  
ggaagaaaac ttgttttgag attactaaaa tatagaacctt aga 343

<210> 8948  
<211> 361  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8948

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agaattatat taaaaagata ttgaaatgca agtcaaggtc ttgcttttat agacccttca 120  
tgtctgggtca agaaaacct tagaagagtt ataactttga gaaaaacttg aaaaccattg 180  
gaagagttac atctcttgac tttntcttca aaacttgtca ctggtaattg attaccaaaa 240  
ccatgtaatc gattacacaa agcattttat gaaaagatgt gactcttcac aatngaattt 300  
gaatttcaac attcagatac actggtaatt tgataccaat atagtgtaat cgattacacc 360  
a 361

<210> 8949  
<211> 214  
<212> DNA  
<213> Glycine max  
  
<400> 8949



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 atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180  
 atgccattgt gagagctctt gatcattgga atca 214

<210> 8950  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <400> 8950

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 acactagttg tagctttact gaatgagagt cttatgaaac acacttcaaa gttcaacttc 120  
 tctccctctt acctccttca atctcttgct cccccctga tgcaagctcc attggagctt 180  
 gtaggcctag gatcttcttc atcaatggat acctttgctt cttggaagat gaatggcagc 240  
 ggaatggaga atgaagagag agacgagacg cctcttcaag gagaatatga gtctagaaca 300  
 agctcaccac cataggaggc catggataac agcttggagg aagaatgaga tgaatgactg 360  
 gagagggaga gaagagcacg aaattatgtg ctccagatga gctttgaaat ctgaattcta 420  
 atattcgaat gat 433

<210> 8951  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <400> 8951

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 tgaagaaggc aaagtcttag tgcataaaaa agatatcaag gaaaggtgga aggtgtattt 180  
 ccacaactta tttaatgatg gatatggata tgactctagc agtctagaca caagagaaga 240  
 ggaccggaac tataagtatt atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300  
 aagaatgagt aacggtaagg cgggtggggc agacaacata cctattgaag tgtggaaaac 360  
 tcttgagat agaggtcttg agtggctcac caaactcttt aatgaaatta t 411

<210> 8952  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 8952

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gaagaacttc cttggccttc tttgatctag cccttgccat aggtcctcca agtccttcta 120
aagggttcctt gtccttattc cttgccttat cctcatcact ctctccctct tcaaaaggat 180
atgtcctcaa atcggttctt tcatctacat caaaaagatt tacgtcagac acattaaatg 240
tagcactcac attatactca ctgggcaatt caatcttgta cgcattgtca tttatccttt 300
cgagtaacttg aaatggacca tccactcttg gttgaagctt ggattttctt tgctccgaac 360
acctctcctt tctcatgtga acccaaaccc aatctct 397
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<210> 8953  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8953

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ggttcctttt ggtttctttg ctcggaatgg caagtatgtg gaatgcctgc tttctgtgag 120
taagaaattg gacgtagagg gcttagttac tgggggtctt tgcttcttac agctagctag 180
cccagagctc caacaagcat tacatattca gcgcctatcc gagcaaactg cttgaagag 240
attaaatgca ttaagttaca tgaaaaggca aatcatgaat cctttgtgtg gaattatatt 300
ttcccggaaa atgttggagg gtactgcctt gggaacagag caganacaac ttctacgcac 360
tagtgctcag tgccagcagc agcttagtaa aattcttgat gactcagatc ttgatagtat 420
cata 424
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<210> 8954  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 8954

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ggatggcctc gattttctca agttccactt ggaaccatt tctaccaact aaaaaaccta 120  
ataaaactat attatctaca caaaagggtac acttctctat atttgcatag aggggtgtttt 180  
tcctaaggat tgaaagaact tgctgagat gtcctaagt atcatctacg ctctactgt 240  
acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
aatgcataag cctcataaag gtgcttggtg cattagtgag ctcaaaaggc atcactagcc 360  
attcatacac aacaaac 377

<210> 8955

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8955

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agcagagaaa ttatgacctt tccagcaaca gatacaacc tggatggagg aatcacccta 120  
acctctgatg gtccagccct cagcaacaac aacagtagcc tgctccttcc ttccaaaatg 180  
ctgctggccc aagcagacca tacattcctc caccaatcca acaacagcaa caaccccaga 240  
aacagccaac agttgaggcc cctccacaac cttccctcga agaacttggtg aggcaaata 300  
ctttgcagaa catgcagttt cagcaagaga ccagagcctc cattcagagc ttaaccaatc 360  
agatgggaca attagctacc caattgaatc aacaacagtc ccagaattct gacaagctgc 420  
cttctcaagc tgtccaaaat cccaaaaatg tcag 454

<210> 8956

<211> 380

<212> DNA

<213> Glycine max

<400> 8956

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gtgaagaaga atgtggcatt tacctgaggt gaaaaacaag agaaagctct tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttcctg acttttctaa aacttttgag 180

ctaaaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240  
attgcttatt ttagtgaaaa aattcatagt gccaccctta actaccccac ctatgataaa 300  
gagatttatg ccttaataag agccctccaa acttggggaac attaccttgt acccaatgaa 360  
tttgtcattc ctagtgatca 380

<210> 8957  
<211> 458  
<212> DNA  
<213> Glycine max  
<400> 8957

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catacctctc taataggtaa gctcacctcc ttgagatgag aagctagaac ttagctacac 180  
acccctata ataactaagc tcaccccat gacaaaaaac atgaaaatac aaaaaaaagt 240  
ccttactaca aagactactc aaaatgcccc gaaatacaag actaaaacc tatactacta 300  
gaatggccaa aatacaagcc caaacgaagg aaaaacctat tctaataatt acaaagacaa 360  
gcggtcat acttagccca tgggctcgaa atctacccta aggctcatga gaacccttgg 420  
gccttcctc ggatctctag cccaatctac ttggagtc 458

<210> 8958  
<211> 350  
<212> DNA  
<213> Glycine max  
<400> 8958

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ctggagttgc tgcacatgat gtccaacggt atgtcaaata ataagatcg gctgcacact 120  
gcacaaggca agataaagtg tctaataag aatagaagct gcacgattca cgatgtcaga 180  
tataatgtcc atgacatcct gctgataat actggaattg ctaaaagcat tgaatcagca 240  
ggatccacga tggcgggatac aatgtccatg acatcctgcc cgaaaatact ggagttgcta 300  
aaagcattga cgttgcaaga tgtccgatga ccgatactat gtccaggaca 350

<210> 8959  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8959

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 attacacaac tgggtcttcag aactgggaat taagttgcta gcttttatat gtaggggtgc 120  
 ttataagtgg tttttgtagg tggaaatgta ccatcatcac caacaccaag gaaaaaacat 180  
 tcattcttct ttcagaatgc caatcccctc tgagaggcac atgttccttc aagcaggaaa 240  
 tggttctggt gattctggac tagtgctctc aactgatgct aagcctatat tgaaatggac 300  
 accagatctt catgcaaggg ttatagaagc agtcaaccag ttagggggag ctgacagtga 360  
 gtactcacat tagcttttgg atcatcagat gtggaagaac atagaaattg agttcactaa 420  
 tgc 423

<210> 8960  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 8960

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 atacctaaat cgtgtgctgg gctgtcaaa tcatatgatg gcttgtggtg aaaacatgaa 180  
 ggattaagat cttgtagaaa aggttttaag aaccttgagc tcaagatctg attatgtggt 240  
 tgctgcaata gaagaatcta aggatttcat agaaatgaaa ttgaatgagc ttcaatgctc 300  
 tcttgaagca catgagcaaa gaatcaaaga aaaggaaaca gatagggtcat ctgaacatgc 360  
 cttactcact cagagtggta gaagatacaa attg 394

<210> 8961  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8961

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 atgctcaacc aagtacatac ttcttatact cattgttaga agcaagtatt atgtcaaggt 180  
 gcattgtaaa ttcttagggt caaatagtta ctacttgtga tgtacatgac atattgagtt 240  
 agaaacatca ttttaaagaa aatcttatat attcactatg attatagtta tgatttataa 300  
 gtttgcatat tcaaatacaa ttttttatta ataaaatata ttntttatat taagtatttt 360  
 agaataatta taatttctct aaaatattta tcgatgataa tttagatatt aatgttatat 420  
 catgtaagat atntaatctc tgtaatatac 450

<210> 8962  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 8962  
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 ttgcatttcg tgttctctgtg accttatggt tccattctct gcttaaacad ctcaatgctg 120  
 tatttaccag atcttcattt ggaaaaattt tccctaaaga tgcattgatga ttactatgt 180  
 gtgtgaacct cttttgcatg tcttatatac tttcatttgc attcatccta gatagggtcat 240  
 attcatgagt taatgtgtat attctagatc ttttaacatc tgggtgtgcct tcatgtgtta 300  
 cttgtagggt atcccacata tcttttgcac tatgacaatt cgatagccta aagtactcat 360  
 aca 363

<210> 8963  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 8963  
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 gtacatatta gattaagggtt tcattatctt tgggccttgt atttagggct ctagaatgta 180  
 ggtagggtag cctagaaatg taaaattttt cagcccttgt attttaggga acctagacta 240

gtttttgtat taggggtagt tatataatth cacatgcatt aagtgaatat ttgatgtgtg 300  
 tgttgggaaa taaatt 316

<210> 8964  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <400> 8964

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 tgacttgcag cagcctccta tccatcttcc attttcacct agagcaattc caaacaaaaa 120  
 aatggaagaa gtggaaaagg agatcctgga gactttcagg aaagtagaga tgaacatacc 180  
 tctgcttgat gccatcaagc agattccaag atatgccaa gtttctaaagg agttgtgcac 240  
 ccacaaaagg aagctcaaag gcaatgaaag gattagcatg ggacagaaatg tgtcagcatt 300  
 gataggtaaa tctgttcttc acattcctga gaaatgtaag gacctatgta ctttctgtat 360  
 accttgcatt attgggaaca acaaatttga gaatgccata ctagatctag gagcatcagt 420  
 taatgtcatg cctctgtcca tgtttaattc tttat 455

<210> 8965  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 8965

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 ttcattgtgtg atgcctcaaa ctatgcactt ggggttatgt tgataaatta tcacatgtca 180  
 ttgcttatgc cttacgcgct ntagatgcaa cccaagttaa ctacaccact atctagaagg 240  
 agctttcaac cattgttttt gctttagata aattcatatc ttatttgctt tgctcccata 300  
 ttactgtctt tactgacct atagctttga ggtacatgtt gaagaagcct gatgctaaac 360  
 ctagattgat caggtggatg cttcttcttt aggagtttca tattgagatt aaagacatga 420  
 gcggtgtaga aaacttgngt tgtgatca 448

<210> 8966  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8966

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 angggaatgt ttttctgtgc ttgttacagc ggacaaggaa ccaaaggatt actacatggt 120  
 ggcttccaca cgtttcacca agactgttct aatangtaaa ggtatcattc gttacacaaa 180  
 tggtaagggc ccttgctcac ccgacatncc cccggctcca gtggggttgg gcttggtctc 240  
 ttaaccaatt ccataccttc cgttggaatc tcaccgctag tgcccgcagg cccaaccctc 300  
 aggggttccta caaatatggt caaatcaaca ttactcgtac tatcaagctc gttaactcaa 360  
 ttagtaagtc taacggaagc ttcgttatgc ccttaatggt gtctcacatg t 411

<210> 8967  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 8967

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 atcttgtatg aaagatgttc tctctttggg tttggtttac gtcacaagat tgaatcccat 180  
 ggaaccttct caccattaga agatcacctt cttcataagg gtaaacctct tcaatatgct 240  
 catcacctt ggcttcaccc tcacttcac ttgaggaagg agaagaggta gctcctctt 300  
 ggctactata gatgccttga cccctcatca tcatggtttt ctatgtgggg cattaagaag 360  
 caatgtggcc tttcctaata catttgaagc acttactgct actagttcta tcttgtgaac 420  
 tagccttttg agtgatttcc tctata 446

<210> 8968  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 8968



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gtaaagatga tgcttgaata tacagattaa atccatctgt gcataaaccg agtcacacat 180  
ttcatggatc atcaacaaaa tctgcatgta cccgatcaaa gtgcttccat gcttcaccat 240  
caaatggatg gcgtaacatg caagaagatc ttctattctc ataacaccat gacatttggc 300  
ttgcagtttg tattcatgta aatagtctct gcaaccttgg tattatagga aaataaaaca 360  
tcgcctttac tagaaattga tttttgttgc ttgt 394

<210> 8969

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8969

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tatcgacaag ctcgaaataga atcttgatgc tctgagcaaa ttcaaacgac aataactttt 180  
tactcggatg tctgattgag tctgtgaata tatccacacg cttcaaattg aataccggag 240  
ctctgagcaa aatccaaaga gacaaacact ttaactcgga tgtcggatgg agtccgtgaa 300  
tatatggaca cgctcaaaat tgaatcccga agctctgagc aaattcaaac gacaataact 360  
ttntactcgg atgtctgatg gaatctccga atatatccac a 401

<210> 8970

<211> 414

<212> DNA

<213> Glycine max

<400> 8970

agcttaacaa aaggcatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60  
aacataaaaa gggaaaagggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240

gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
 attttcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360  
 ctctagaaac attacaagaa cattttttatt ggcctcatat gaaaaaggat gtgc 414

<210> 8971  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 8971

agcttccatc aagaacccta gggccttata ttgcatctct ggcccaatct tcttgagatc 60  
 ttctatctaa tgaccttggg gggtaggatt gcatcaccat atgcccacct acaagaatgt 120  
 ggggtcaaat tcttcgcat aagaggattt gagaagtga gatagcgatc aaatcgggtga 180  
 taactttctc cacaagtttc tatagcacta tttacgttgc ctttcaaata aattgaccat 240  
 agatgagtca gacccttctg cgcaacaata tcatcatcca aaaacagcac tttgttgagc 300  
 tttggaaaga tctatggcaa atagaactgg aggtggttca agatagacaa atactttgga 360  
 tacatattat gatactcagt atacatgaga 390

<210> 8972  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 8972

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 cattgtcatc atttctttct ccgtcattga ggagccactt aagctgccag gtctctccac 120  
 ctttgggcat attctttaga aagattcgtg cccccctttt gcacatgttc tgtacttgca 180  
 tcctatccga agacattata ctgacactgc ctaacgaagg caaccactat gtccttccaa 240  
 gaatggactc gggaagggtc caagttagtg taccatgtaa cagctacccc agtaagactt 300  
 tcttggaaacg aatgtatcag caattcctca tcttttgcgt atgccacat cttccgataa 360  
 tacatcatta gatggctcct ggggcaggta gtcccc 397

<210> 8973  
 <211> 287  
 <212> DNA

<213> Glycine max

<400> 8973

caatgatatt cttcatgcct cttaagtgca gatgtccaaa tctttgatgc catattttga 60  
ctatatcttc tatggagaat atacactgtg tgaggagtaa ctggctttct tgagcgtgtc 120  
cataagtaac agttgtcctt tgatctgctg ccccttcatta cgacttcact cttctcattt 180  
gtcaccaagc attctgactt tgtgaagttt acattgaata cttcatcaca caactgactg 240  
atgctgatca agttcgcagt cagtcccttc accagcagta ctttggt 287

<210> 8974

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8974

tcccgccaat ggtatntgag gtttaatgat actattgttt ccttcggatt taaggaaaat 60  
actgttgatc aatgtatata tctgaaggctc aatgggagta agattatattt tccaattatg 120  
tgtattgatg atatcttgct tgcaactaac gatcttggtc ttcttcatga gactaagaaa 180  
tttctctcta gaaactctga agtgaaagat atgggtgagg taagctatgt gatagggata 240  
gaaatattct gtaatagatc acaaggattg ttaggcttac ctcagaaagc atatatcaat 300  
aaaatactag tgaaattcaa gatggaaagg tgtttaacat cacctgttct aatttagaag 360  
ggagacaaat ttagtctcac acaatgtcat agaaatgata tggaacgaaa acaaatggaa 420  
gctattttgt atgcatcagt tgttgttgca tct 453

<210> 8975

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 8975

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ggccttgatt ttctcagggt ccacttgga cccatttcta ccaactacaa aacctaagaa 120  
aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgtttttctt 180

aaggactgaa agaacttgtc tgagatgtcc taagtgatca tctaggctcc tactatacac 240  
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
 cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagctattc 360  
 atacaaacca aacttgggtct tgaaagcagt tntccactca tcaccctttt tcatcctgat 420  
 ttggtgataa ccac 434

<210> 8976  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8976

agcttcaaga aaaagatggc ctcagcaaat tccttatttc cagaaggga ttctatcaat 60  
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 attgaggcaa tagatctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180  
 acagtagaaa gagttacaat agatggtagt tcatcaagt aaagcataac tatagaaaaa 240  
 cctatagata gatggtctga agaggataga aaacgagtac aatacaactt aaaagccaaa 300  
 aacataataa catctgccct gngaattgat gaatatttca gggtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtgggacac tcttcgataa cacatgaagg aactacaaat 410

<210> 8977  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8977

tgtgtntaa agtttacaac ttacaagcgc gactatatta atctcttaaa aaatttagtt 60  
 gctaaataaa tttcccaaaa acttaaaagg gcatcacaat aattttacaa acaatttctt 120  
 aataattaaa ataccatcaa attcatcctt gatgcaagct ccattggagc ttgtaggcct 180  
 aggatcttct tcatcaatgg attcctttgc ttcttggag ataaatggca gtggaatgga 240  
 gaaggaagag agagaggaga cgccacttca aggagaagat gagtctagaa gaagctcacc 300  
 accatangag gccatggata agagcttggg ggaagaagga gatgaatgaa tggagaggga 360

gagaagagca cgatattttg tgctcaaaaa gagctctgaa atctgaagtt aatattcaaa 420  
tgaatcaaag tgaaaaaaa 439

<210> 8978  
<211> 417  
<212> DNA  
<213> Glycine max  
  
<400> 8978

agcttgaact aaagattata agatggtact gaaacctatc ttagcgattg ttgttgggct 60  
tattgagtca atcgccatcg ggttgttatt gaaccactag tagatgtcaa gtcattgcaaa 120  
cttcatactt gaaatgccca atcctcaatg tgtaggggtg tattgaagat cccacattga 180  
ttaggaatat ggccaaatta aagtatatat gtcagggaaa ccttcacctt acatgctagt 240  
tttgtgggat ttagttaggc ttgaatctaa aatctaagat gttattagaa cttatcatat 300  
caatgttaag cctattaggc catctaatat cgggttggtta tcaaaccact tgtagatgtc 360  
caatcccata aacttgggct caagatatcc aatcctacgt ccgtgggggt atgttgg 417

<210> 8979  
<211> 454  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 8979

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aggcaaaaga tcaagaggag ttagtggggtt aaaaccataa acaacttcaa aaggagaaca 120  
attagtgggtg ctatgaacag ctctattgta agcaaattca acatggggta aacaagcttc 180  
ccaagtgttt aagttcttcc tcaaaactgt cctaagcaaa gttcccaaag tcctattaac 240  
aacttccgtt tgcccatcgg tttgtgggtg acaagtgggtt gaaaataaca atttagtgcc 300  
caacttgctc cacaaagtcc tccaaaaatg gcttangaac ttagagtccc tatcactaac 360  
aatgctcctt ggcaaaccat ggagtctcac aatctccttg aaaaacaaat cagccacatg 420  
ggaagcatca tcaactntct tacatggaat aaaa 454

<210> 8980  
<211> 451

<212> DNA  
 <213> Glycine max  
 <400> 8980

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 gacaggtggg ttgaagggtg gtagtgaaaa acaggtgagc atcttttaac atagaataat 120  
 ttgctttcta tttttttgcc tgctcagttc catttttaaaa ttattggttg agccttgacc 180  
 ctagatatta ttattgcaga ggttataaca ttaacagaat ttcaccctac acattgtaat 240  
 acgttggcat atagcagttc aaaggggttca attcatctag ttgacttggg acaatcagca 300  
 ttatgtgatt ctcatgctaa actgtaagta cattcttttg ttgtaatctt gttgggttcct 360  
 gacaaataag tatccattc ctcccataag gctttcagaa ttttaacaaat gtttaaacag 420  
 ttgacagaat ttctggatag gtcactctgtt t 451

<210> 8981  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <400> 8981

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 ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
 tattgtgagt agcattctga aagatgcttc tgtgcctgat gctgagaaag atgttccaac 180  
 atcgtccacc ccgaatgttt ctgtgcctga tgttgagaaa gatgttccaa catcttccgg 240  
 tccaaatgct gaagtactct cttccccag caaagagaga tcaacagagg aagatgatca 300  
 • agcgacaaag gagaccctg caccaagggc accagaaact gttccagggtg acctcattga 360  
 cctggaagta gtagaaattg atgaagaacc cattgccaca gttggca 407

<210> 8982  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <400> 8982

agcttcaacc ctttcccaaa actcggcaag ggacgcgaaa tgttattccc actcagatcc 60  
 aacaatgtca aagatttcaa actagtccaa ttactcggtg tcgtaccact aatatcatta 120

cctcccaacc ttatctcaac aagagaatct aacttggtcaa cagaaggact caaagtccca 180  
ctaagattaa actttttccaa aataatcatg tccacctttc cgtccccatt gcaccttatt 240  
cccaaccatg gcccggtgaca aggggtcatgt ccaactccaag aatcaaccaa aatccaagga 300  
taccccaacc ctccaagaaa ctccaacaac accatcactt caaaagcaca cataacccccg 360  
gcctttgcct cacaaaattc attgtttctca taactcactt tactcgctgc aaatt 415

<210> 8983  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8983

agcttatcaa taattaaata atcttatcac atgagtaata aatatacatg tgtagtcaa 60  
cattaatgaa atacatacac aatcaaagtt tgaaattggt catagattaa aatcactgga 120  
tttttaaata tgagagataa aatatttcaa ttaaaaaata agagactaaa attacatatt 180  
ntagaaaata gagaaacaaa aattacattt taacctttta aaaatcacaa tctactaaat 240  
atctaatacaa ctatctgtaa tggataataa taattaatag ctaaaaatgt aaactttaca 300  
ttatttggtt aaaataaatc aattttttta cagtaaataa tctctaacgc aaatgttaag 360  
aaaaaattac atatataaga tattttatgan aattcacaaa taatgttcac atgtgcatga 420

<210> 8984  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8984

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tcagctaaac ccctgagtc ctagggatcc ctttcttcga gtacataacc tcaatcccta 120  
aaaagtactt caaggccccc aagtctctac tctgaaactg agtttgaaga atactcttca 180  
agttgtcagt acctttatta tcaattcttg taatcacaat atcatcaaca tacaccacaa 240  
gtaagatgct gccaaaggta gtatttctat aaaatacagt atgatcactt tgactcagct 300  
tcaatccata tgcaatgacc acaccactaa atctcccaga ccaagatcta ngtgattgca 360

tcaagccata taacaacttc cttaagcggc ataccatgcc aaactgccnc atagcaacaa 420  
acacaggtga ttggtatata tacacctct 449

<210> 8985  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 8985

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attgcatcat ccatcttgct tgacacaatc cttccgagtg gaggccataa ttatctccac 120  
gaacttcttt agttccctgt tggagacaat cagcattgac cgattagctt gggggtgata 180  
ttttgaggct acttttgttg tgacatgaca atggcctaac accttttgca aataactgtt 240  
gcaaaagtga gagcctcatc actgattacg ctactttgtg tgtgacatga taatggccta 300  
ccaccttcta catatgacta ttgacaaaagt gagagcccta tcattgaata tgacccttgg 360  
cacc 364

<210> 8986  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 8986

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tataaaatta tggagactgc atctgctatt cctaatacgt gtgtgtatatt gactagatga 120  
aaccaaaagg aagttgctat attggcgaaa acgtttccac attatcagtg gcattacttg 180  
aggacatctt tatcttcac cagactctat gttaaggatt attcacagag atctaaaaac 240  
tagcaatatt ttactagatg ccaatttggg tcccaatata tcaaactttg gcctggctcg 300  
atcattcttc cgagatcatg tggctggaac atagttagct tctatctaata tatgactctt 360  
tgatattgct gtat 374

<210> 8987  
<211> 432  
<212> DNA  
<213> Glycine max





gatcatatga atctctcgag agtttccgat gttaaatttc gagcgtatcg atatatgata 180  
 accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagctttcg 240  
 ctgatcaact tcgagtgtca ctgtatgtga tgcgccaaaa ttggacatcc gagttaaatg 300  
 ttatgacctat tagaatttct caagagctat ccttggtgaa ttgtgagcgt ttctatatga 360  
 gatttgacctg aatcggacat ccgt 384

<210> 8990  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 8990  
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 aattaggaaa ttgctcaatc tttcatacca agatcttggg acttgtttta aaccatacag 180  
 tgcctttttc aacttataaa catgattagg atgttcgaag tctaaagtcc ttttcaacta 240  
 gatgattaag attatgcatg tttacatgtg cagttgtatg atgcatagc caagaatcat 300  
 taatcttact taccaagtaa ggctaataa atgatgcatg ttcaatattc aacatataaa 360  
 tattacctat tcttttacct atgtgaacaa cctcactagt ttttgcttca taaatgaaac 420

<210> 8991  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 8991  
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 gaacaaagaa ctcaatttgc cacgggacac atagcatata tagaatctct taaaaggggtg 180  
 tcagctgcac ttgcgaatta cattgaaggc gatgagcctc gcgagttctc attagacaca 240  
 gtcacacccc cacctttcac gctgtgaag aggaaaactg gctcatgatt cattcccata 300  
 tcagcaaaaac cctttgctac aacaggagca attgagtttg ggatcggacc acactctact 360  
 ttgaaagtga attaccttag gcttggtggt aacccaacaa tttcagttga 410

<210> 8992  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 8992

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 ttcccattct tgtatacttt ctccaaccaa gtgggaacct attacttcca acgcccattg 120  
 aagaccagaa gcataagtta ctacgcgatg caagacctcc acgtaagttg gatcagctnt 180  
 ttcttttttta aaagcttgcc atgtaagcaa ctgaagagca tggttctcat ccaattcctt 240  
 catttcatat gttttattaa cttcatgaga tgctagcaat tgtttgtccc gagttgtgat 300  
 gatgattttg ctgccgcgac caaaccaatc aggtcttcca gcaattgctt gcaattggtc 360  
 gtgtgtgtca acatcatcta taatcaagag aaccttcttt cccttgagcc tacactgtat 420  
 gaatgaaatt cctgttgctt actt 444

<210> 8993  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 8993

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 aaacacttca ctgcttggct gatgaataga ggctatcacg gttcttccat cccttgccaa 120  
 ggcacgtagt gtctgcgtca caaagaaagc tgaagcactg ccacaaaaga caaaaatcca 180  
 aaaaaaatca agacatatgt tcagcaaaaa gagatgttcc tactttacaa atatgaacaa 240  
 ctggggacat aacaaacatt ctccaacaaa aatactatta tttatagaat attgtaatct 300  
 ccctttagaa ggtgcacaca aattgatgtt gtgactatgt agaacaacaa aaagacgaag 360  
 acataacttc caaattcatt ttatgaaatc gtatttggtt gtacaatttt tttat 415

<210> 8994  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 8994

agcttgtttc aatccataga tggacttatt aagcttgcag actaagtgct caccaacact 60  
agataagaat ccctcagggt gtttcatgta aacctcttct tctagatcac cattcaggaa 120  
cgccattttc acatccattt gatgcaactc aagatcaaaa tgagctacta atgccaaaat 180  
tactcgaaga gagtctttct tagatacagg ggaaaagggtc tctctgtaat cgattccttc 240  
tctttgagtg aatccttttag caacaagtct tgccttatgt ctctcaatgt tgccttctaa 300  
gtctttcttt gtttcgaaga cccatctgca tccgatgggt tttacaccaa cagacaactc 360  
aacgagatcc caaacttggg tagatgccat agaatccatc tcatccctca tagcattg 418

<210> 8995  
<211> 449  
<212> DNA  
<213> Glycine max

<400> 8995

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tctgaaatgg gtagaaagca tgccgaaatg ggactccctt gagaatcgat ccacaactaa 120  
taaaaccaca gtagctcctt ggaagttagg caaccctgta atgaaatcca aggccacgtc 180  
ctccacaga atagatagag ggggaattgg ttgaagaatc cttgaatgtt atttagggat 240  
atactttgta agttgacaat cagaacacct tagtgatgta gcttctatgg agcttgtaag 300  
ccttgatct tcttcatcaa tgaagtcatt tgcttcttga agtttgatgg tagcggaatg 360  
gagaaggaga aatatgattg gagacgccac ttcaagaaga agatgagtct agaagaagct 420  
caccaccata ggaagccatg gataagagc 449

<210> 8996  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 8996

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gaggctgact tcaatccaaa ggaatttttt gtggggagga ggtgctgaag ggaaaaagat 180

cgcttggaatg gcttgggatc atatatgtac tcctagaaat caaggagggtt tgggtatcaa 240  
agctatcaag gatcttaata gagcccttct tattaaatgg aagtggctga tgttccacca 300  
atcagaccaa ttgtggtgca gaatcctcat ctcanaatac aaaggatgga gagggttgga 360  
agagaattcc cacaggcagt ctcatcctt ttggtggtcg gaattgaagg ctgttttact 420  
ccatagcagc atgga 435

<210> 8997  
<211> 341  
<212> DNA  
<213> Glycine max  
<400> 8997

agcttgtaat cgattacaca gtaaggaatt tttcaaaata actccaaga gtcacaactg 60  
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agaggttttc tgaataacat tttcttatcc tctcaaaacc aaattgtctt atcattctca 180  
aaatattcct tgggtcaaac acttgcaaat tcaataagga atcttgatcg atcttcaatt 240  
gtaatatact tctcttaaag agagaaaatt cttcttcttc ttattcaaac agatctgtat 300  
aagagaccga aagtctcttc agttgtaaag gatatttaac a 341

<210> 8998  
<211> 427  
<212> DNA  
<213> Glycine max  
<400> 8998

taacataagg catgcgaaga ggggtggaatt cctatagcaa ttcccttatg ttatcaaaca 60  
taaaaaggga aaaggtaata ttgtagccga tgctctttct cggcgatcatg cattactttc 120  
tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
aacttttgga gaaattttta aaaattgtga aaaattttca gaagatgggt tcttttagaca 240  
tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt 300  
gcttgtttgt gaagcacttg aaggaggttt aatggggcat tttgggggtcc aaaagactct 360  
agaaacatta caagaacatt tttattggcc tcgtatgaaa aaggatgtgc agaaatcttg 420  
taacatt 427

<210> 8999  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 8999  
  
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 atcgagacgc tcgacactga aaatccgaag ctattgagca attcaaattg tcataactat 120  
 taactctgag gtccgattga cgtgcataat atatcgatac gctcgaaatt gaataatgga 180  
 agctctatga tcaattcaga tggtcataac tattcactcg gatgttccaa taccgtgcat 240  
 aatatatcga gacgctcgaa attgaacaac ggaagctctt gatcaataca aatggtcata 300  
 actttatact cggatgtcgg acttatgcgc ataatatatg catactctct atatgtacaa 360  
 cggaacctct tgatcaattc aaat 384

<210> 9000  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9000  
  
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 gttggatcaa atggagaata tagaccatat gaattgctca agagcttcca ttgttcagtt 120  
 gcgagcgact agatatataa tgcgcctcaa tcggacctcc gagttaaaag ttatgaccat 180  
 ttgaaatgct cagagcttcc attgttcaca tttgagcgct tcgatatatt atgcacctga 240  
 atcggatctg cgagtgcga cttatgacca tntgaattgc tcaagagct 289

<210> 9001  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9001  
  
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acttttaact cggaggtccg attcaggcgg ataatatatc gagacgctcc aaattgaaca 180  
atggaagctg ttgagcaatt caaatggtca taaatagtca ctcgaggtc cgattcaggc 240  
acataatata tcgagacgct cgaaattgaa caacggaagc tctcaagaaa ttcaaattggt 300  
cataactttt aactcggagg tccgattcag gcgcataata tatcgagacg atcgaaattg 360  
aacaacggaa tatctcaagc aattcaaatg gtcataact 399

<210> 9002  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 9002

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taaaaagtta ttgtcgtttg aatttgctga gagcttcagc attcaatttc gagtgtttcg 120  
atatattctg ggactcaatc ggacatccga gtaaaaagat attgtcgttt gaatttgctc 180  
agagcttcag tattcaattt caagcgtgct gatataattac gcgactcaat caaacatccg 240  
agttaaaagt tattgtcggt tgaatttgct cagagcatca acattcaatt tcgagcgtgt 300  
cgatatatta tggggctcaa tcagacatcc gagttaaag ttattgtcgt ttgaatttg 360  
tcagagcctc agcattcaat tttcagcgtc tcgatatat 399

<210> 9003  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9003

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caaaagttgt ggcaacaact cttcatccct cattctctca attcgtttcg atattgaatc 180  
aacagaatat atagccactg ttaagcgtga atgcagatcc ttcacaactg accgggtctt 240  
gtcaatcaca tgagtgcctt gatcttttagc aaattgatgc ctaagctggt gacattttcg 300  
gccatagtcc ttccttatgg attcactagc ctacagatag ccgaacagga ggtcaaaatg 360  
atcgatgatt gataacacaa aatttg 386

<210> 9004  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 9004

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 actgccttgc tttcttgacc cccaagctct ctgtcaagca acttagctgc ccttggatct 180  
 gttagtagtg tcttctggaa ggactgtgag aagccagttg caatgatagt cacatgaatc 240  
 tccccattgt agcgatcatc aacaacggca ccaaataata tattggcaga agggtcggct 300  
 aaacttgtca ccacctacag cagttatgaa gttttgaaaa caggatacaa atgttcacaa 360  
 caaattcata agatcaaaag aatgctgaaa tggttccttct gacaat 406

<210> 9005  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9005

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 gaagctagag cttagctaca catacctctc taataggtaa gctcacctcc ttgagatgag 180  
 aagctagaac ttagctacac accccctata ataactaagc tcacccccat gacaaaaaac 240  
 atgaaaatac aaaaaaaagt cttactaca aagactactc aaaatgcccc gaaatacaag 300  
 actaaaacc tatactacta gaatggccaa aatacaagcc caaacgaagg aaaaacctat 360  
 tctaataattt acaaagacaa gcgggctcat acttagccca tgggctcgaa atctacccta 420  
 aggctcatga gaacccttgg gcct 444

<210> 9006  
 <211> 412  
 <212> DNA  
 <213> Glycine max



<223>        unsure at all n locations  
<400>        9006

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gcacaaggca agataaagtg tcaaatgaag aattgaagct gcaggattca cgatgtcgga  180
tataatgtcc aggacatcct gctgaaaat actggaattg ctaaaagcat tgaagctgca  240
ggatccacga tgtcggatac aatgtccagg acatcctgcc cgaaaatact ggagttgcta  300
aaagcattga agttgcagga tccacgatgt cggatacgat gtccaggaca tcttgcccga  360
aaatactgga catataaatc tgttatatct ttaacagatt attgtgcagt ta          412
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<210>        9007  
<211>        439  
<212>        DNA  
<213>        Glycine max

<400>        9007

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tgggtgagtc ccatccaggt agtcctgaag aaaaccgggc tactgtgat aaaaaatgag  120
aaagaggagc tgattcctac tcgggtgcag aacagttgga gagtttgcac cgactatagg  180
aggctgaacc aggttaccaa aaaggaccat tttcccttgc cattcattga ccagatgctt  240
gaacgcctgg caggtaaate tctactatct ttccttagac tttttctaaa caacattgtc  300
tgatcctctc aaaaccaaatt tgtcttatca ctctcaaaat attccttggc caaaacactt  360
gcaaattaaa taaggaatct tgatcgatct tcaattgtaa tatccttctc ttaaagagag  420
aaaaatcttc tttttctta          439
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<210>        9008  
<211>        406  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        9008

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tctaaactnt atacaagaat gaagctctga taccacttgt tggacaagtg gccttagata   60
tcttaagaag ggggggggggt tgaattaaga tattacaaac tatttcccca attaaaaatt  120
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ctattttaact ttctattcaa gttataaatt cccttaataa tgaatttctt aaataatgat 180  
tcaaatagaa caatctgaat gtgaatataa aacaataata aataaaggag ttcaagggaa 240  
gagaaagtgc aaactcagat ttatactggg tgggccacac ccttgtgcct acgtccagtc 300  
cccaatcagc ccgcttgaga gttccactat cttgtaaatt cctttttacaa gttctaaaca 360  
cacaaggaca atccttcctt tgtgtttaga attcctttcac aacaag 406

<210> 9009  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 9009

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ttggagcgga caaaatcggg ggtgactttt cctgagagca ctttctctct cacaaagtga 120  
caatcgatct ctatgtgctt agtccgttca tggaatacca gattagatgc aatgtaaaga 180  
gcagcttgat tgtcacaaat aaacttagtg tctaagtgt ctccaaattg taactgttgg 240  
agaagttgcc taagcccaat aatctcacat gtaactactg ccatagcacg gtattcagct 300  
tcggcactgg atctggctac tacattttgt tttttgcttc tccatgagat caaatttcct 360  
ccaataaaaa cacaataacc aataatggac cttctgtctg acaatgagcc t 411

<210> 9010  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 9010

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taagctacaa ttagcttatg cataagttaa aaatcatatt tttaaaaaaaa ttatatgaaa 120  
gaactttttac aaattatctt gtgcataagt tgatttaata tttattttacg agaaaaaaaa 180  
aatcctatct tcaagtctca agcatcacia acggcatgat aagtctcaat gagaatattt 240  
attaatttaa aaaataggca tttgattatg cctatctgaa ttgaaatttg attatataca 300  
aattgaatgt agatacatat atatgaaata gttagaagtg tcatattcac acaataagtg 360  
aatgaaacaa gatagattga tttctttgac cattacaggg gaatcatgt 409

<210> 9011  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 9011

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 tgcatgttaa tgctttcctt ttactttcat ctttatcata tatctgtatg ttatgttctt 180  
 tttcttgtaa gtgatgctac taaagtgaag aatggtgcca taatctgttt tagatatattg 240  
 ccaaacaaaa gcaacagaca gatgtggaga ttggagaaag agataaactc aaagatatca 300  
 aagctcataa aacaacgcca ggaggaaact catgagcatg atctattaca aatgatactt 360  
 gagggcgcaa agaattgcga gggcagtgat ggcctattat cacactccat ctcat 415

<210> 9012  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 9012

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 ctcaaggact aaagagttaa gaaactagat caccaacttc caacaagaag atgggtgagtc 180  
 aatatatgag gcgtgggagt gatacaaggg ttacttgtaa gaatgccctc aacatggggtt 240  
 aagcaaatca ttgacgattc aattcttctt tgaaggactg aaccacaaa gcgtgtcaac 300  
 cttagactcc agagttggca aatcattcat gagcaagcca atcaatgaat gcaagactat 360  
 ccttgagggtt gtagctttaa aatatgggtca atgggaaaag aaaagtgata atcg 414

<210> 9013  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 9013

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taccgaatac ggtgttgatg gggttcatgg cgacctgggt cttagtggca tcttcgatga 120  
gtctttcggg attgatgaag gcgacataaa aggggtgtggg acgggttgccc tgatcgttgg 180  
tgatgatttc aacgcagtcg tgctgccaga ctccaacgta ggagagaacc tgtggatttt 240  
agagaaaatg agtttagaaa cctagggcga ttcaaataa gttcaaaacg tgttcaaact 300  
tgtgagaaac ctatgagaac cactttgaat ctatgagaat gacagagatg caaagtgaat 360  
gagagctaca acggtgttga aggagaatga agtgtgcaac 400

<210> 9014  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 9014

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agcttgaac aaatcttcta cacttggagt gatcacctgc agtcctcttg aacccttacc 120  
accactctg tcatcatgcc gacactcagg aagcccaata ggtttagcct tctctaagta 180  
ttctgaaaaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttctgg 240  
acgatataga ttctttgtat accctattaa gatcttcatg tatcgctcaa ccgggtacat 300  
ccaccgtaga taaacaggac cacaacattt gatgtctctg accagatgca caatcaagtg 360  
aatcatgatg tcaaagaaag caaggggaa 389

<210> 9015  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9015

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gaaccctcat tttactatct ctgtgcgagg gaaatttctc tctctataga catcatatag 120  
aaaatcccaa cgggtggagg gtgctaacat gaactacaaa cctggcctat aaatatcaca 180  
atgatccaat ggtaacgag tacaagagcg tagttttact taaacaagtt tgggtgtatg 240  
cgagaaaaag aaagctacga tgcgaatgac atttctctca cctcagacat ttttttcgca 300  
tattccaacg gtaaggatgt cccaaaatta gttctagact tggttttcaa atttgacgat 360

gatctaattgg tgaacgagtt tgggattgtc attttactg

399

<210> 9016  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<400> 9016

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taagctcacc tccttgagaa gtttccttaa gaagattcct aaagaagcta gagcttagct 120  
acacatacct ctctaatagc taagctcacc tccttgagat gagaagctag gacttagcta 180  
cacacccctt ataatagcta agctcaccct catgacaaaa aacatgagaa tacaaaaaaaa 240  
agtccttact acaaagacta ctcaaaatac cccgaaatac aaggctaaaa ccctatacta 300  
ctagaatggc caaaatacaa ggcccaaacy aaggaaaaac ctattctaatt atttataaaag 360  
ataagcgggc tcatacttag cccatgggct cgaaatctac cctaaggctc atgagaac 418

<210> 9017  
<211> 417  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9017

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cctctatcat atctaataat ttccacattt atgtotaatt gcccttttat ttcattgtag 120  
taaattttcta aggcattccat tgcctaagaa atctcgggca gtaagtagac ataaccgtaa 180  
cgtgaataat catcaataat ggtgataaag tatctttcct ttctgaaaga actaacatca 240  
aaagggtccac aaatatcagt atgcacaatt tcaagaagtt gagtgcttct ttagagctcct 300  
ttctttgtat gttttgcttg ttttccctta atacaacca cacaaatatt tagatccgta 360  
aaatctagat aaggaagaat ttcattcttt attaatcttt tcctcctttc tctagaa 417

<210> 9018  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 9018

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tacattactc tgagtgcacc tgatcagtag ttctgttggc ccggtcaata gaactttcag 120  
agttcaatat cagtataaac ccctagcccc ataaagacac aattcatgga agacattctg 180  
gtagaatttg ttgggaatga ccaaaccacc acagactggt ggaaccttta tgttgacggc 240  
gcgccaaca tgaaggggaag taggggatga atcatcctcg aaggacttga taatgtaacc 300  
ctagagcagg ccatcaagct caacttcaaa gcctcaaaca atcaggctaa gtacgagggg 360  
ctcattgcaa gtctaaaact agcaagagaa gtcggggcca agaagctatg atgctacata 420  
gactcg 426

<210> 9019

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9019

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tttgtaaagt tgataattaa caatgatgaa attagtacat tagttttttt taaatccaat 180  
aaaaccatct tatttaccta cttttattag tttgtgtaat tatgttaaaa atgctttgta 240  
ataaaaaaga ccagatgaag tagtaaatat aaatacattt ttaagcaaaa attcaaacct 300  
tagtttgttt ttatcgtaat attcgaaaat taaccgtaca ttagattcaa ctctcctagg 360  
ttacaattag tttttttttg gcatttttgt ggcctagatt tttttt 405

<210> 9020

<211> 390

<212> DNA

<213> Glycine max

<400> 9020

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ataattatga tctttcaagc aacagatata atccaggttg gaagaatcat ccaaattctga 120  
gatgggcaag tcttccacaa caacaacagc ctgtccctcc tttccagaat gctgctgggt 180

caagcaggcc atatgttcct cctccaatgc agcagcaaca acaacaacaa agacaacaag 240  
cagctgaggc cccttctcaa ccttccttag aggagttagt gaggcaaatg atcatccaga 300  
atatgcaatt ttagtaagag acaagagcct ccattcagac tctgacaaat tagatagggc 360  
agatggctac ttagttgaac caagctcagt 390

<210> 9021  
<211> 329  
<212> DNA  
<213> Glycine max  
<400> 9021

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ggcctcgatt ttctcacgtg cactcggac cccatatcta ccaactacaa aacctaaaga 120  
aactatctta tctacacaaa aggtccactt ctctatattt gcatagaggg tgtttttcct 180  
aaggactgaa agaacttgtc tgagatgtcc taagcgatca tatgggctcc tactatacac 240  
ttatatatca tcaaaataaa cagctacata tctacctatg aaatcccttt agacatgatg 300  
cgtaagcctc ataaacgtgc ttgggtgcat 329

<210> 9022  
<211> 397  
<212> DNA  
<213> Glycine max  
<400> 9022

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agacctccaa tctttaatgg agagggttac cactactgga aaaccggaat gcaaattttt 120  
attgaggcaa tacatctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180  
acagtagaaa gagttacaat agatgggtgt tcatcaagtg aaagcataac tatagaaaaa 240  
cctagagata gatggtctga agaggataga aaacgagtac catacaactt aaaagccaaa 300  
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gctaaggaaa tgtgggacac tcttcgatta acacatg 397

<210> 9023  
<211> 285

<212> DNA  
<213> Glycine max

<400> 9023

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acagcttcca gcatctagac gtaagatgcg ccataatctg acttccgtgt gaaaagatat 120  
gaccatatga atatctcgag agctttcgct gtagaacttc gagcgtctaa atatatggta 180  
agccagaatc gagactccgg ggtgaaagtt atgaccagtt ggatttgacc attgcgatct 240  
tggttcaact ccagcgtct agtcatatgc tgtcccgaa tctaa 285

<210> 9024  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 9024

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taaccaagga atttgtgtta ccattgggtg tgttccagag tctgcaatgt ttgctccaac 120  
aactccttaa ggcttttctg atcagttcta ataatgaact tatggcctaa caaataatgc 180  
ctgaatttgg ccatggctgt gatagcatag aattccctag tataagtaga ttgcttctgc 240  
attctagggg acaacttctt aaagaaataa gcaataggat gttgagattg actcaataat 300  
gctccaatac ccgaaccaga agcatcagtc tcaagtacaa atgggttctct aaaattagga 360  
attactaaca ttggagttga agtcatagct ttcttgagtt gcaaaaatgc 410

<210> 9025  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 9025

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ggtcatttc cactttcaat ccttagtgct atcaccctaa ctgaaattga catgtcatgc 120  
aatcaaatac caggagatt gcaagattta actgatttga gtagcttga acaactagat 180  
ttaagggaac acaggttaga ctctaaacta cctgcaatgc caaaaggggt gataagtctt 240  
ttctcagca gaaactcttt ctcaagtgaa attcccagc actatggtca actagatagg 300



cttcagaagc ttgatgtttc cttcaattca ctcacaggca ctgctcctgc tgaacttttt 360  
tctttgccta acattagtta cttgaatttg gcatccaaca tgttgaatgg accactc 417

<210> 9026  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9026

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cttaaggctc aggatcagat gagataatat gcaaataacc atagaagaga actgatattt 180  
catgagggag attgggtttt tttgaaattg caaccttata gaatgaggtc cttagcaagg 240  
aagccaaatg agaaactgag tccaagattt tatggaccct acaagggtgat acagaaaata 300  
ggggaggttg cttatagggtt ggaacttcca gaatgaaagc aagatacatc cggttttcca 360  
tgtatctntg ctcaaaaagg cagttcaacc cacttgtttc cctcagacat taccta 416

<210> 9027  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 9027

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tgtaatcaat atccaacttc taaggcttcg aggataggga aaataactta caattttag 120  
catcatcctc attcattccc agaaataaag cagtgtcttt aatgcttata gtagaataag 180  
cagagagaag cagctgaaac atctcctttg tgtaaagtcc tggaaaaagt ttattggtat 240  
taaaattttt gctgaactaa acatctttga ataaaataaa ggtgcacaag acttgtgaac 300  
tcaagctata tggagaagca atccaaaacc aagaatcata ttttaataaac caattgcaga 360  
agttaccatg gaagtagtac attac 385

<210> 9028  
<211> 425  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9028

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acaactattg gagttggaag aaatgagatt gattgcatat gaatcttcaa ggttggtatta 120  
agagaagggtt aaaacttacc atgataaaaa gttgctaaag aagaattttc aaccaggaca 180  
acaggtgcta ctattcaatt caaggctgaa attgttcctt gcgaagatca aatctaaatg 240  
gtccgaacca ttaccatca acaaagtcag accatatgga gcagtagagc tttgtgatcc 300  
tcaatccaag gatccagaca gaacttgggt agtgaatgga caaagggttaa agttgtacca 360  
tggtggaact attgaaagat taaccactgt tctatccttc caagaataac aatgaactat 420  
gcgtc 425

<210> 9029

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9029

agcttgaagg anaactggat gcattggtta acttggttaac ccagctggcc ttgaatcaga 60  
aatctgtacc tgtcgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120  
tttgccttac catgtagcaa cctggagcaa ttgagcagcc cgaagcttat gctgcaaaca 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240  
tctccagcaa caaatacaac cctggatgga ggaatcacc taatctcaga tggcttagcc 300  
ctcaacagca acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac 360  
catacattcc tocaccaatc caacaacaac aacagcccca gaaacagcca acag 414

<210> 9030

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9030

ntgagcaaat tcaaacgaca attactttnt actcggtatgt ctgaatgaat cccgtaatat 60

atcgagatgc tcgaaattga aaacagaagc tcatagcaat tgcaaaccac aataactatt 120  
aactcggatg tccgattaag tcccgtata tctcgagacg ctcgaaattc aaaacagaag 180  
ctctgagcaa attcaaacga caattacttt ttactcggat gtcggaatga atcccgtaat 240  
atatcgagat gctcgaaatt gaaaacagaa gctcatagca attgcaaacc acaataacta 300  
ttaactcggga tgtccgatta agtcccgtaa tatatcgaga cgctcaaaat tgaaaacata 360  
agctctgagg aaattcaaac gacaattact ttntactcgg atgtctgaat gaatcccg 419

<210> 9031  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 9031

agcttgagca aattcatagc ataataactt ttaactcggga tgtccaaatg aaaccataa 60  
tatatcgaga tgctcgaaat tgaaaaccga agctcgtagc aaatgcaaac cacaataact 120  
ttttactccg acattcgact gagtccctta ttatatcgag acgcttgaaa ttgaaaacag 180  
aagctcgtag caaatgcaaa ccacaagaac ttttaactcc aaaattcgat tgagtcccg 240  
aatatatcga gatgctcaaa attgaaaaca gaagctctga gcaaattcaa acgacgaata 300  
aattttttctc ggatgtccga ttgtgtcccg tatttatatcg agacgctcgt aattgaaaac 360  
ggaagctcgt agcaaactca aacaacaata aattttta 398

<210> 9032  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9032

cttgagcaat tcanatggta ataacttttc actcggatat ccgattcagg cacataatat 60  
atcgagacgc tcgaaattga acatcggaag ctcttgagca attcaaattg tcataacttc 120  
taactcggag gtccgattga ggtgcataat atatcgagac gctcgaaatt gaagaatgga 180  
agctcttgag caattcaaatt ggtcataact tttactcgg aggtccgatt caggcgcata 240  
atatatcgag acgctcgaaa ttgaacaatg gaagctcatg agcaattcaa atggtcataa 300

cttttcactc ggaggtcgga ttcaggcgca taatatatcg agacgctcga aattgaacaa 360  
 tggaagctct tgagcaattc aaatgggtcat aactttttcac t 401

<210> 9033  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9033

agctntgatg taacatttgg agaggttata tgaacaacg agatgatgcy ctccatgaga 60  
 ggttgatca aatggagaat agagaccata tgaattgctc aagagcttcc attgttcaat 120  
 ttcgagcgtc tagatatata atgcgcctca atcggacctc cgagttaaaa gttatgacca 180  
 tttgaaatgc tcaagagctt ccattgttca atttcgagcg tcacgatata ttatgcacct 240  
 gaatcggacc tgcgagtgc aacttatgac catttgaatt gctcaagagc ttccattgtt 300  
 caattttgag cgtcacgata tattatgcac ctgaatcgga cctgcgagtg acaacttatg 360  
 accatttgaa ttgctcaaga gct 383

<210> 9034  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <400> 9034

tttccacctt tcattagcat ctgcatctct gtggatcaga gaatggaact tcattcttcag 60  
 tcagctaaac ccctgagtcc atagggatcc ctttcttcga gtacataacc tcaatcccta 120  
 agaagtactt caaggccccc aagtcttttag tctgaaactg agtttgaaga aaactcttca 180  
 agttgtcagt acctttatta tcattcttgg taatcacaat atcatcaaca tacaccacaa 240  
 gtaagatgct gccaaaggta gtatttttat aaaatacagt atgatcactt tgactcagct 300  
 tcaatccaaa tgcaaggacc acaccactaa atcttccaaa ccaagatcta agtgattgca 360  
 tcaagccata taacaacttt ctttaagcggg ataccat 397

<210> 9035  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 9035

tgtaattgat tacatcattt gtgtaaccga ttaccatata gaaaaattca aatttcaagt 60  
ctgaatgtca taactcttaa taaactaatc gtgtaatcaa ttaccacatt tatgtaatcg 120  
attactagta aggaattttc aaaaataact cccaagagtc acaactgttc aagaagtttt 180  
tgaatgacca tcaaaggcct ataaataggt gatttgggac acgaaattgc tcagagtttt 240  
tctgaacaac attgtcttat cctctcaaaa ccaaattgtc ttatcactct caaaatattc 300  
cttggccaaa atacttgcaa attcaataag gaatcttgat caatcttcaa ttgtaatatt 360  
cttctcttaa agagagaaaa ctcttcttct tattcaaaga gatctattta 410

<210> 9036

<211> 316

<212> DNA

<213> Glycine max

<400> 9036

agcttatccc atgcttcttt ggccgtcttt gcattagata tcttctcaaa tgtatcttca 60  
tccaccgatt gataaatgag aaagagagct ttcttgtctc tctttcttga ctcttcaac 120  
gtctcttcta caccttgact tagcgaggct tcatcttgct cctcgaagcc attctctacg 180  
atatcccaca catcttgagc tcctagtagc gccttcatct tggtactcca attatcatag 240  
ttgttctttg tgagcatcgg catttggaaa ggaaaacctc cattcgccat cttttgagga 300  
tcttgaagct ctgata 316

<210> 9037

<211> 460

<212> DNA

<213> Glycine max

<400> 9037

ctctgcaggg catgcacagc ttgttataaa aaaaagcgtc tttctaactc tatatttgct 60  
atatctttac acgtcaatgc ttattgaatc agtttgatat agtgctcgag ttagctgata 120  
taagtaatgt gcctttatat taagactatt tacacccaac aataccggtt gtattattac 180  
atagacgaga tgtatataaa taaatacaac atgatatacg attttctga ttactcacct 240  
ttgcttggca tactgaactt tggcactaga ctgaacttag acataatgat acacgtttcg 300

aatacaagtc ataattgata ttctgataat ataatgattt acttggaaca gtcatatcaa 360  
aagcgtttac aagtggatcc ttcttacaaa gcatctgctg agtgcctagc cattgtttta 420  
acggatattg gtaccaacat aaagcttgct ggaaacactc 460

<210> 9038  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9038

agcttggttac atatagtttc aacctgatgt cctttaaaga cttagtaaaa atatcagcca 60  
agtgctacga gatctatctt tatgtgttta gtatgttcat ggaagactaa attagatgca 120  
atgtgaagag agcaacttga ttttcacaaa taagcttagt gtcttgagtg tctccaaact 180  
ttaattgttg gagaagttgc ctaagccatg taatttcgca tgcaacttct gtcattggtat 240  
agtattcaac ttcagcgctg gatctcgcaa ctatattntg cttcttgctt ctccatgaga 300  
tcaaattccc tccaagcaga acacaatagc ctgaggtaga actcctgtcc aatcagcact 360  
atgagtaaca aacaatttga cattgtcttc gtcttcatat 400

<210> 9039  
<211> 404  
<212> DNA  
<213> Glycine max  
<400> 9039

tgtcaaagcc ttgtatggat tgaaataagc tataagagct tggtatgaaa gactaagttt 60  
attcttactc tagatagtta ctctagagaa atagtggaca cttcactatt cagaaaggct 120  
tagaaaaagg atctgctgat tatacatata tatgtgaatg acatcatttt ttatgtaacc 180  
tctgaaagga tgagcaagga gttttctgag ctaatgaaaa gagaatgtaa aatgagcttg 240  
atgggtaagt tgaagttctt tataggactt caaatcattc aaaaagatta tggaattttc 300  
atgcataaag agaaatacat caaggaccta ttgaaaaggc tcataatgga tgaagcgaca 360  
caaatggcta ccggtgcac cttccactat cattgactat gatg 404

<210> 9040

<211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9040

cttgatttcc tntgttttcgg aaacctctct tttctcatgt gcacccaaac ccaatctccg 60  
 ggttcgaaga caaccttctt tctccctttg ttggcttggt tagcatagct tttatttttc 120  
 ctctcaattt gatctttgac tctctcatga agcttcttca catagtccgc ctttgcttga 180  
 ccttctttat gcttaaaaaac agaaacatta tgcataggca aaagatcaag aggagttagt 240  
 gggttaaaaac cataaacaac ttcaaaagga gaacaattag tggtgctatg aacagctcta 300  
 ttgtaagcaa attcaacatg gggtaaacia gcttcccaag tttttaagtt attcctcaaa 360  
 actgtcctaa gcaaagtgtc aaaagtccta ttaacaactt ccgcttgccc atcggtttgt 420  
 gggtgacaa 429

<210> 9041  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 9041

agcttagacg cagaacaaga caggttatac ggagaagaat aaagtgcggg caaataggt 60  
 cacgcctgat ataatttaaa atgtaagtcc aacatcgatt ttcaataaaa aaaaaaaac 120  
 ctatgttaac aaaatgatgt taacgttaac atcggttttc ttcaagaaac cgatgttaac 180  
 ttatcatacg ttaacatcgg ttttcagaaa accaatgtta acctcggttt ttttcaaaac 240  
 cgatgttaaa gaacttacgt taacatctgt tcttctaaaa ccaatgttaa ctaattaatg 300  
 ttaacatcga ttttccaaga accgatgtta acgtcacttt gttaacatcg gattttcaaa 360  
 aaatcgatgt taaaggatac acattattta caattatgcc accgcattta tcata 415

<210> 9042  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 9042

agcttctgtt cctgagaaac tggttcccat aagacaacag ggagtgaaga ttgctgaaaa 60

ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
tattgtgagt agcattctga aagatgcttc tgtgcctgat gctgagaaag atgttccaac 180  
atcgtccacc ccgaatgttt ctgtgcctga tgttgagaaa gatgttccaa catcttccgg 240  
tccaaatgct gaagtactct cttccccag caaagagaga tcaacagagg aagatgatca 300  
agcgacaaag gagaccctg caccaagggc accagaaact gttccagggtg acctcattga 360  
cctggaagta gtagaatctg atgaagaacc cattgccaac aggttggcac ct 412

<210> 9043

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9043

agctttgaga ttaacctcaa gctagcatgt ccaagcttct tatgccatac cagtgatgct 60  
ccttgacaaa gagtaaaccac aatacctttt gactgtacaa atcaccgagt ttaatctcct 120  
tgtctcttag cagaaaagag tgaagagtta tccttggtat ggaaaataca tatatccttg 180  
taaaagggtga cattgtatcc actatcacat aattgactta tgcttagcag attgtgcttc 240  
aatcctttaa caagtaaac attatcttta agaggataag gagaaatgca tactttacct 300  
acccagttta tcagtccttt ttatttcctt ctgaaaatga tcacccact agatataggg 360  
cttaaggatt ggagcataga ctnttcgcct gtcatgt 397

<210> 9044

<211> 400

<212> DNA

<213> Glycine max

<400> 9044

ttcactcgga ggcccgattc aagcgcataa tatatctaga cgctcgaaat tgaacaacgg 60  
aagctatcga gaaattcaaa tgggtcaatac ttcgaactcg gaggtcctat taaggtgcat 120  
aatatatcta gagctcaaa attttacaat ggaagctctt tggctataca aatggtcata 180  
acttttcact cgaagggtccg attaaggcgc ataatatatc gagacgctca aaattgaaca 240  
atggaagctc ttgagcaatt caaatgggtca taacttgtca ctcggagggtc cgattcaggt 300



gcataatata tcgtgacgct cgaaattgaa caatggaagc tctcgagcaa ttcaaattggt 360  
cataacttgt cactcggagg tcggattcac gcgcataata 400

<210> 9045  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9045

agctntgatg taacatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60  
gttgatcaa atggagaata gagaccatat gaattgctca agagcttcca ttgttcaatt 120  
tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagttaaaag ttatgaccat 180  
ttgaaatgct caagagcttc cattgttcaa tttcgagcgt cacgatatat tatgcacctg 240  
aatcggacct gcgagtgaac acttatgacc atttgaattg ctcaagagct tccattgttc 300  
aattttgagc gtcacgatat attatgcacc tgaatcggac ctgcgagtga caacttatga 360  
ccatttgaat tgctcaagag cttcca 386

<210> 9046  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9046

tgaaagaaaa ttagtaatta acataagtaa agctagtaat taagtagaga taattaaggt 60  
tgacttatgg tgatctagat tttatagaat tagaaaaggg ataattaagt catattagtt 120  
taaagtggag ggcattttca taaatgacaa tataactagt ttaaaataga attttttagtt 180  
taattagttg gtgattaatt aaagtgttta gttacatgat gtagaataat taaaataagt 240  
tagagttgta acaccatgaa aaattacaac tcatactgac agaggaagtg tngtgtcatc 300  
tatacatgta tgaatttaat tccaatagta tatgtttttt atcatagaan tttgtgttat 360  
atataagtga caccctctac cgaaacatac atataaaaaa aaaaataaaa ttattaa 417

<210> 9047  
<211> 449  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9047

atccttacag tcacctgcgg catgcaagcn ttggcatgta ctcaacgaag tacttggtg 60  
cctctaaaat aaaaggaata ataatatatc agtttagcagt tacataggca atngtaggaa 120  
tccaacattc cttgcaacat caaagtttgc attgcaacaa taaaaaaaaa taaacaactg 180  
aaacaccttc aacctggatc tgggttntta tctggatggt attgaataga aagtcgccta 240  
tactttttct ttatttcaga ctctgccgct ccaggctcta atcctagaat attaaacgga 300  
tcaaaaattt ccatctgcat taaaattaaa agaaaaattt cagaacgtgc accagtggaa 360  
gtctcagcca attagtaaaa tgtaaacaac aaatacaaga tccctcaata ctaatttcaa 420  
atctcaagaa gtggaatagc tgaattcat 449

<210> 9048

<211> 285

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9048

accatacaaa ccttntgcct tccatgtagc aacctggagc aattgagcag cctgaagctt 60  
atgctgcaaa tatttacaat agacctnctc aacctcagca gcaaaatcaa ccacagcaga 120  
acaattatga cctctccagc aacagataca accctggatg gaggaatcac cctcacctca 180  
gatggtncag ccctcagcaa caacaacagc agcctgctcc ttcctttcaa aatgctgctt 240  
ggccaagcag accatacatt cctncaccaa tccaacaaca gcaac 285

<210> 9049

<211> 189

<212> DNA

<213> Glycine max

<400> 9049

tatattatgc gcctgaattg gaactccgtg tcataagtta tgatcatttt cattttctcg 60  
agagctgtcg tgcttcaatt tcaagcttct cgatatatta tgcacctgaa tcagactttc 120  
gtttgacaag ttatgaccat cttgatttct cgagagcttt cgcgggttcaa tttcaagcgt 180

ctcgatata

189

<210> 9050  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9050

atcctctcag tcacctgctg catgcaagct ntgatgggtg cgagaagaaa tcacatgttt 60  
gtcatcatca aaaagggggg taatgtgaat gtatgtatac atgattntga tgatgtcaaa 120  
aaagaatcta acaaggctgc ttcaaatgat aagcatttgc ttcaagaata attcaagatt 180  
gcttcaacaa acaaagcctt gtttcaagat tcaactaaaga ccaagccttg ccttataaca 240  
nagtgtttc aagacatgca aggctctggt tatcgattac caggaagtgt aatcgattac 300  
cagaagacgg gggttgagaaa tagctgttga aaaagggtnn tgaatttgaa tttcaacatg 360  
taatcgatta ccatatgtct ggtatcgatt accacgcacg aaactttgga aactcanatt 420  
caaaagtcac aaccct 436

<210> 9051  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 9051

ctttttactc ggatgtctga ttgagttccg tcatatatcg agacgctcga aattgaatgt 60  
tgaagctctg agccaattca ggcgacaata tctttttact cggatgtctg attgagtccc 120  
ttaatatatc gagacgctcg aaattgaatg gtgaacctct gagccaattc aaacgaacat 180  
taactttttc tcggatgtct gattgagtcc tgtcatatat cgagacgctc gaaattgaat 240  
gttgaagctc tgagccaatt caaacgaaca ataactttta ctcggaatgc tga 293

<210> 9052  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 9052

tgctagcatg caagcttaag ccataactaa tagtgccctgc caagtatatg agactccatt 60

gtattgctgt ccaatgctgt tcagcgcgat ctgacataaa ttgacagacc tttgtggcca 120  
 agaaactaac ttcagatctg gtgatgggtg catactgcaa agcaccacca acacatctgt 180  
 atatagtggg atcagaacaa gactcacacc ctgatctggt taacatgcat ccaccaacca 240  
 ttggagagga gatggacata gcttcatcca tctcgggtgt agacaacaaa tctctcgtat 300  
 acttgactg atgtagaata agagcacatt acgctgatgt ctgacttcaa tacccat 357

<210> 9053  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9053

gcttctttcg tagttcttta cacatataan atagtgcaca tcttgtcttc tcgaacagtg 60  
 tttcaaagtc ggctgctata tgccgctatc catgattgat aatagggaga accacactgc 120  
 aaaaggtagt tgttgtagtt gaagttagag agccctagca cctatacaca tcataccaaa 180  
 attccatatt ttcaaatac gggttgagtt tcataccttg cagttggatt ctaaaatttc 240  
 accattatth gcacccctag cgcccatgtg ggcactggct gtgcactaat tcccttacta 300  
 gtcttgatc aactctgcaa ttctactgat gtcccactca tgccgcttgt ttgcaactaa 360  
 gagatatatt gaaaagattt gacaccaatt gagaagaaca tctagagaa 409

<210> 9054  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 9054

tcggacctca gtgtgaaaag ttatggccat tatattatct ctagagctac cgctgttcat 60  
 tttcgagcgt ctctatatgt gatgcgcctt aatctaactt ccgtgtgaaa agctatgacc 120  
 attagaatth ctcaagagct ttctttgttc aattttgagc gtctcgatat gtgattcgcc 180  
 tgaatcggac atccgggtta aatcgatga ccatttgaat ttctcaagag cttccgctga 240  
 tgaattcgag gctctcgaca tattatgcgc cccaatcgga catccgtggg aaa 293

<210> 9055

<211> 387  
 <212> DNA  
 <213> Glycine max

<400> 9055

agcttggaga aattcaaattg gtcataactt ttcacacgga tctccaattc atacgcatcg 60  
 catatcgaga cgcttgaaat tgaacacgag aagctcttga gaaattttaa tggtcataac 120  
 ttttaactcg gatgtctgat tcaggcgatt cacatataga gacgctcgaa aatcaacaac 180  
 ggaagtgtgt gagaaattca aatggtcata acttttcaca ctaagggtccg attcaggcctt 240  
 ataatatatc gagatgctca aaattgaaca acggaagctc tgcagaaatt caaatgggtca 300  
 taacttttca cacggatgtc caattcaggc ttatagtata tcgagacgct caaaattgaa 360  
 caacagaagc ttttcagaaa ttcaaatt 387

<210> 9056  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 9056

tctagcattg ttatgtccac gaatcggcca tctgtgtttt aagttatgac cagtcgaatt 60  
 tggtgagagc ttgcattgtt caattgggag catctcgata aattattttc ccaaatcgga 120  
 catccgtgtg aaaatttatg accattctaa tttatcgaga gcttccgtgg ttttaatttcg 180  
 agcatctcga tatattatgt ccccgaaatc aacatctaag tgaaatgtta tggccattcg 240  
 aattttctga tagcttccgt tgttcaattt cgagcggcta gatgagttat 290

<210> 9057  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9057

agctttcttat ccaaggctca tottggtggt gaagctcctt cttccatggc ttattcccta 60  
 gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatttc catggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
 gcaagcttcc atcaataact tttcacacgg atatgcgatt cgcggacata acgcgtctag 240

actctcaaaa ttgaacaacg gaagtcctcg ataattcgaa taatcataac atttcactcg 300  
gatgtctgat tcgaggacat aanatatga gacgctcgaa attgaacaac ggaagcactc 360  
gagaaaattg aattgtcata acttttcac 389

<210> 9058  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 9058

aacatttgca tttctcgaga gcttcogttg ttcataattg accttctcga tatcttatgc 60  
gccttaatcg gacatctgag tgaaaagtta tgaccattta aatttctcga gagcttccgt 120  
tgttcaattt tgagcatctc gatatgttag gctcctgaat cgaacatccg agtgaaaagt 180  
tatgaccatt tgaattactt aagagcttag gttgttctat ttcgagcgtg acaatatatt 240  
atgcgcctga atcggacatc tgagtgaaaa gttatgacca tttgaatttc tcgagagggt 300  
ccgttgatcc atattgagcg tctggatata ttatgcacca gaatcggaca accgagtga 360  
atattatga 369

<210> 9059  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 9059

agctttggag aaccaagcca atcagaatgc tatacgaaat atagatggga atagaggtaa 60  
caatggcggg aatgacggac cgaggcagaa ccgggttgag ggagtaaagc tcaatgttcc 120  
tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactaagca 180  
cttatttgcc tgcaatgact acactgatgg gcagaaagtc aagctagcag cagctgaatt 240  
ctccgactat gcccttgttt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300  
acgagaggta gatacatgga ctgagatgaa aagggatgat agaaaaaggt atgtgccac 360  
t 361

<210> 9060  
<211> 402

<212> DNA  
<213> Glycine max

<400> 9060

accgatatca tataatatta tgaagatggg tgaagaacaa cacatagttg tcagagaaga 60  
agtggacaaa ctcttcaatg ccaacgttat cagagaagtt agatattcca cctggctcgc 120  
cgatgtcatc atagtaaaaa aggctaacga caaatagcaa atatgcattg actatactga 180  
tatgagtagg gcgtgcccta aagatgcata ccctttgcc aacgttgaca ggctagttga 240  
tggagcattt ggattctagg tgctaagctt cctagatgct tactccgaat acaactagat 300  
taggatgcat gctctagatg aggagaaaat gacattcttc actgagatgc aacttttgct 360  
aaagggcatg ccctttgcct aaaaaatgca gtgctacata ct 402

<210> 9061  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9061

agcttgtcca gctagccgct ccaaaatctg ctccatgaac gatagaggga aatgatcatt 60  
ccttgtggtg tcattaagtt tgtgatagtc tatacacatt ctccactcag tgaatgcccg 120  
tgtaagggtg agatcattct ttctattatg gatcaccatc atactacttt tcttggggcac 180  
cacttggact ggactcacc aagcactgtc aaagatcgga aagataagtc ctgcttcaag 240  
caacttgagg acttcctttt gcacttcctc cttcatggat ggggttgagtc tcctctgcgg 300  
ntgtctcacc ggtctataat caacttccat aatgaatttt tgcacacaat aagatgggct 360  
aatcccttca agatcaaaga tgtgccatct tattgttgcc ttatacnntt tgatgacctt 420  
cactaactat gcttcctcta ctg 443

<210> 9062  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 9062

agcttcatga tgatgaatca tgtagttttg atgatgacaa aaagcccaaa agaatgattc 60

aagaaaagac atcaagaaga atcaagattc aagagaagat gaattcaaga ttcaagagaa 120  
gaaatcaaga agcaacaagt caagacttaa caaggggaagt attgaaaagg atttttctaa 180  
aaccaaacat agcacaattt tgttttacia aagagttttc tcaaattttt ctaagttacc 240  
agagtattta ctctctggta atcgattacc agtttctgt aattgattac caatgataaa 300  
atttgatttc aaaaagtttt taactaaatt tgcaacgttc caaatgattt ttaaattggtg 360  
tatttgatta caatatattg gtaatcgatt acgagtgtat ctgaacattg aaattcaaatt 420  
tcaattgtga agagtcacat cttttcat 448

<210> 9063

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9063

agcttgccat ctgtcccaa gctaaaacca ttatcacaga agaagaggaa gatggnggaa 60  
taacgacgca naatgggtcag agagggaagt gacaagctcc tcaaagccaa tttcattaga 120  
gaagtcaggt actctaccta gtcaccaaac gtcgtcatgg taaaaaagtt caatgacaaa 180  
tgacggatgt acaatgatta caccaatccc aacagggcat gaccaagga tgaatatcct 240  
ttactcagca tcgacaagct agtcgatgaa gcatctgggt tccaagtact aagcttctctg 300  
gatgcctact ttggatacaa tcaaattcga atgcacaccc cagacgaaga gaagacgaca 360  
ttcctcacta aagatgtcaa catttggttac aggggtcatgc cctntggcca aaaatgcang 420  
cgctatatac ca 432

<210> 9064

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9064

agcttgtgca ttcaataccc tgatgaggat gtcccatatg ttcttaaaac tagactgata 60  
cacttgttgt ccaagtttca tggttttgca ggtgaagacc ctcataagca tctaaaagaa 120  
ttccatattg tctgtccac catgaaacct ccagacgtcc aagaagggtca catctttctg 180



aaagcctttc ctcattcttt agaggagtg gcaaaggact ggctatatta ccttgctcta 240  
 aggtocatca cgagctggga tgacctcaaa agagtattct tagaataaat tttccctgcc 300  
 tccaggacca cgaccatcag aaaggatatt tcaggcatta ggcaacttag tggagagagc 360  
 ttatatgaat actgngagag atttaaaaaa ctatgcgcca gttgccctca ccaccagatt 420  
 tctgagcagc ttct 434

<210> 9065  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9065

agctntttat taatatatca gttntttccc tatgcaaatt taaaatatgt ttttcaatca 60  
 atgggttttat aaagattttg tttatattaa ccagtgttaa tattaagttg cttttctatt 120  
 ctaagaagct tttactttta taagtgagtt gtatcttgac tatcttatag ttttatgtag 180  
 tatttttttt tcaaaaattc tgtttatacc agttgaacga gttattatta agatttgtcc 240  
 atttacattg aattaataac aaaaaaattt atcatttttt tatttatttc aatacttact 300  
 agtaaaattt taaaaccata aaaattaaac ctaaccaa at cacaaaagaa taatttagtt 360  
 tgatttgaat ttcataattc attttaaatt aaccactata ctggcactta attnttttta 420  
 tttggattag agntatttaa agcataaatc aca 453

<210> 9066  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 9066

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 ctttcataaa tttccctact ttatttcata agaaaatgtt caccctatgt tagattaaat 120  
 aacatattaa aaaacttaca tgtagtaag caagagagtt tctatgtata ttaagagtat 180  
 aataacaata aattaagaaa aataagctaa ctttaataag ttaaccatta atgtagttta 240  
 ggtaaaattgt tcattcttga ttttaataaaa aatgtttatt ccaagagttt gattttatac 300  
 attatatata taatataatt tatatattaa taacatatat gacatcaaca cgatggtgaa 360

ttttaaaatt attataacaa cgaattaaag aaattttaact ccactctaatt 410

<210> 9067

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9067

agctntgagg gatttcaaatt gacaataact ttatactcgg atgtccgatt gagttccgta 60

atatatcgag acgctccaga ttgaaaatag aagctctaag caaattcaaa cgacaataac 120

tttttactcg gatgtccgat tgagtctcgt aattttattgt gatgctccta attgaaaacg 180

aaagtttgta gcaaattcaa aggataataa atttttactc gaatgtccga ttgagtggcg 240

taatatatcg agacgcttga aattgagaac agaagatcta agcaatttca aacgacaata 300

aatttatagt cgggatgttc gactgagttc tgtaattatc gagatgctcc ggattgaaaa 360

cggaagctcg tagcaaattc aaatgacaat aactttntat tcggatgaac gacagagtcc 420

cgtcatatat cgagataact 439

<210> 9068

<211> 372

<212> DNA

<213> Glycine max

<400> 9068

agatgaggat catccacac ttcggaatgt gcatcatgga aaaacttctt tcgatgatgc 60

cacacacggt catcatggat aatcccagct ttcttagaag aagcaatgtc tacaaaccaa 120

gaccgctcac taacagatag tagggattca tctggaaact catcacatat ctctttctcc 180

ccatgagtaa catcctcatt aactaaccta gacaaggggt cagcaaccaa attctcacat 240

cccttcttat ctttgatttc aatgtcgaac tcctagagca gcagcaccca tcttatcagc 300

ttgtgcttgg catcaacctt tgtcagtaag tatttaaatcg tcgcatgatc tgtgagaatg 360

atgaccttgg ag 372

<210> 9069

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9069

ntatacacct tcgagtgggt ntcctctatt cgggtgaata tagtgtctct tctaagtctc 60  
ttttagaaat gaaatgtgaa atgtcttaat ctcatattg gttatgagaa attctatctt 120  
tgtgttttca ttctgttttc gtcatattat ttttgaaaga ctgtgtgttg ctgtaccatc 180  
gatttggggg ttgatttctt tgccaagcat gctcgagta taactagagt gttcataaat 240  
ttcaatgtct tcagtgttgt agacctcaa gacttcagt gcttctatat tttacgggac 300  
ttcaatgtct cttgtcttgt atatctcaga gacttcaat tcttcagtct tcatatgttc 360  
aagactctaa tgtctttaat cctttaca 388

<210> 9070

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9070

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ttggctttga tgatgcaaaa cttgaatatg acattgagtg catttggagg gtctgagtga 120  
tgtaagctcc attggagctn gtaagcctag gatcttcttc atcaatagat tcctttgctt 180  
cttgaagat gaagggcagt ggaatggaga aggaagagag agagtagatg ccacttcaag 240  
gagaagatga gtctagaaga agctcaccac cataggaggc catggataag agcttggagg 300  
aagaaggaga tgaatgaagg gagacggaga gaagagcacg aaattntgtg ctctaaaaga 360  
tctctgaaat atgaagttta atattcaaatt gatncaaatt aaacaaatgc acacacatg 419

<210> 9071

<211> 356

<212> DNA

<213> Glycine max

<400> 9071

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gagacatctt gccaaacaaa gtcaggttca cgataactcg cctgtgcttt ttcttccatg 120

ctatatgtag caaagtcatt gatccaataa tgtttgatga gttggaaaat gaggccacaa 180  
 ttatactgtg ccagttggaa atgtattttc cccctgcttt ctttgacatc atgattcact 240  
 tgattgtgca tctggtcaga gaaatcaa at gttgtggtcc tttatatcta cgggtggatgt 300  
 acccggttga gcgatacatg aagatcttaa aagggtatac aaagaatcta tatcgt 356

<210> 9072

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9072

agctnggttg gatggaatgg atcattccta ttcccatggt tggttaagtc aagagaccca 60  
 aggtgttcat caatggcgaa gttcaagaat cttgctttga tctgtgttgac cagaaagaag 120  
 tgagggtgtc atgattggat aattcatatc tctttggtct acaaaagata agttttgttg 180  
 ataaattgtt tcaagtgcct tttgaattgg aatggaacca tgtggagggtt acatatgaaa 240  
 gtgcgttata tacccttctt aatttctttt ggcatgacta tacaacttct ttaattatag 300  
 aagccattaa tggctaataa atttctcaa gtgatggtgg ggcaaagttg cgcattgctt 360  
 actangtacc caaacatacc ctatgttata tttgcaattg aggcataatat gcacgtaagt 420  
 taaatataca ataaatgttt tatgt 445

<210> 9073

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9073

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 cagcttgttg tgttggttaag tcacatatcc caaactgtat attctgctcc ccttgagctc 120  
 atatacagtg atttgtggga actctctcat gtttcatctt caaatgactt ctcttactat 180  
 ataagctttg ttgatgccta ctaggttcac ttggatctat tttcttaaaa ataaatcaga 240  
 aacttttctt atttttcagc agttttaa ac catggctgaa cttcaatttg atactaaaat 300  
 aaagagtgtt catacagatt gnggagggtt cattttcaaa ctcatggaat tattcataaa 360

ctgattttgcc ctcacacaca ccaacaaaaat ggctgtgtgg agagaaaaca caggcatata 420  
gttgagtttag gtctcaccct actcaaacaa g 451

<210> 9074  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9074

agcttttcaact gacgcatatg tagaacttgt acctgctttg tctgatctga atgttcttgt 60  
tgagacctac tttgctgaca tccctgctga ggcgtacaag acctcacat ctctgaatgg 120  
cgtcactgca tatggggttg atttggtccg tggaacccat actcttgatt tgatcaaggg 180  
tggatttccc agtggaaaat acctctttgc tggagtgggt gatggaagga acatctgggc 240  
caatgacctt gctgcttctc tctactacatt gcanggtctt gagggcattg tgggcaaagg 300  
tattttatta aacatgcatt tcatagcaaa tnttgggaga ctattaccta taatatagct 360  
atctgatg 368

<210> 9075  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9075

agcttgttgc aaatgcaaac tgcaataaca ttntactcgg atgttcgatt gagtcacgta 60  
atacatcgag aactcgaaa ttgagaatat atgctotaag caaattcaaa cgacaataag 120  
tttttactcg gatgtccgat tgagtcccg aatatatcga gacactcgaa attgagaata 180  
gaagctttga gcaaattcaa acgacaataa cattttactt ggatgcccgga ttgagtcccg 240  
taatatttg agacgtcca cattgaaaac ggaagctcgt gacaataatt ttttactcgg 300  
atttccgatt gagtcccgta atatatcgag acgctcaaaa ttgaaaacgg aagctcgtac 360  
taaaagcaaa cgacaataac tttntactcg aatgtccgat ggagtcccg tatatatcaa 420  
gatgctcgaa a 431

<210> 9076

<211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9076

agcttgaagt agttgtttga caagtggcat caataactta agaggggggt gaattaagtt 60  
 tcaaaatttc ccactaacia acttttaacc cctttctaaa tgataggctc aaaatgcaga 120  
 agaagaaaca atcaatttaa taatgttctt taaacataca agacaaaatt gattgcaata 180  
 acataaatga gataaggga gagagaaatg caaactcgat tatactgggt tggccacttc 240  
 ccgtgcctac gtccagtcct caagcaaccc acttgagatt ttccacaatc tcggtaaatc 300  
 ctttacagac tntgaacaca ccttangatc cctcaccctt gagttcaaag attctccaag 360  
 agacaaccag tctcttgatt acaattctca caatccaaga gacaaccagt ctcttgatac 420  
 aactgacttt ctgagatgaa cagaaaag 447

<210> 9077  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9077

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 gaatgtatgt atacatgatt ttgatgatgt caaagaagaa tctaacaagg ctacttcaaa 120  
 tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaag ccttgtttca 180  
 agattcacta aagaccaagc cttgccttaa aacaaagtgc tttcaagaca tgcaaggctc 240  
 tggtaatcga ttaccaggaa gtgtaatcga ttaccgaag cagggttgag aaatagctgt 300  
 tgaaaaaggg ttttgaattg aattntcaac atgtaatcga ttaccatatt tctgtaatcg 360  
 attaccagca acgaaacttt ggaaattcaa attcaaaagt cataaccctt caaattataa 420  
 ctgtgtaat 429

<210> 9078  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 9078

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cttatctccc aaacagttnt gccagctacc aaacgtcctt ttccttgatg acttccctga 60
ataccccaca aagtttcagt tcataagcta ccttgaaagc tatgccaagc acttcagcat 120
agccccacag ttcaatgaaa cagtgcagtc tgcaaagtac gatgagacct ttggcctgtg 180
gaggatcaag accatcagga agatcaagaa attaggagga ctctcttcag gtggttggtg 240
tgagtgtgag gttgagtaca tttgcaggtc gcttggtggtc gccaccgggg aaaactcgga 300
gaaagtgggtg cctgagtttg aagggttggg agagnttggg ggccatgtta tgcatgcctg 360
tgattataaa tctggggaag gttatggtgg ac 392

```

<210> 9079  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9079

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aagaaggggg ggggggttgaa ttaagatatt acacactatt tccccaatta aaattctatt 120
tcactttcta ttcaagttac aaattccctt aataatgaac ttcttaaata ttgattcaaa 180
tagaacaatt tgaatataaa gatgaaacaa taataaataa aggagtttaa gggaagagaa 240
agtgcaaact cagatttata ctgggttcggt cacacccttg tgcttacatc cagtccccaa 300
gcaaccgct tgaaagttcc actatcttgt aaaatccttt tacaagttct aaacacacaa 360
ggacaatcct tcctttgtgt tagtattctt tacaacaaga accctcggtc tcttatccct 420
t 421

```

<210> 9080  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9080

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gagtaaaaag ttattgttgt ttgaattttc taagagtttc cgttttgtat ttgaagcgtc 120

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tcgatatatt acgggactca accggacatc cgtgtataaa gttatgggtca ttacaatttg 180  
 ctcagagctt gtagtctcaa ttttgagcgt ctcgatatat tacccgattt aatcggacat 240  
 ccgagtaaaa agttactgtc gtttgaattt gatacctgct tctgttttca atttgagca 300  
 tctcgatata ttacgagacc tcttgaaca tccgagtaaa aagttattca tcg 353

<210> 9081  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9081

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 tccatgctat atgtagcaaa gtgattgac cagtaatgtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgcttttctt gacatcatga 240  
 ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctctatt tatctacggg 300  
 ggatgtaccc gggttgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360  
 gtccggaagc atctattngt gagaggtaga ttgcagaaga agccattgaa ttttggtcag 420  
 aatactta 428

<210> 9082  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9082

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 aacaagggtga ttcaatacct tactaagcct attagatagg acttttagcaa taattttgta 180  
 gacacaacct atgaggggata tgggtctgaa atcacttata tgtcgaggat ccttgagctt 240  
 acggataaga gcaatgaatg atgaattgag gcccttagga aaagcagcat tcacatgaaa 300  
 ttctgccaaa aaccttaaga actcaagttt cagctcattc cataaatgct taataaatat 360



gaaattaaac ccactctgacc ctgngctttt gtcattgccca caagcccaca ctgcagaaga 420  
tatctcctcc tctttaaa 438

<210> 9083  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9083

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ctccaacagg cttcttttgg ttgggatgtg tgctctatct cgcaagattg catggtcact 120  
agcagtcata ttctcaatca attccatggc ttcttcaggg gtcttcaatt ttatttttcc 180  
ccctgtagaa gcatctaaaa gttgctagga ttgtggcctt aaccctgcaa tgaaaatatg 240  
gagctggatt ggttttgaaa atccatgagt aggcgtcttt cttagtaacc cacgaaatct 300  
ttccaaagcc tcaactcaagg actcgtctag aaattgatga aaggatgaga tgacagctnt 360  
tccttcagca gtcttggact ctgggaagta tntcttcaag aatntttcaa ccacttcac 420  
ccaagactta agactattat c 441

<210> 9084  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9084

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ctacaacaat tgcaacaaga ccactatcc acaatgagag aacaattttt gtttaaaacc 120  
ttacatcttg tatgaaagat gttctctctt tgagttaggg ttaggttaca agattgactc 180  
ccaaggagcc ttctcaccat tagaagatta cttcttcat aggtgtaaac ctcatata 240  
tgctcatcac ccttggcttc acccttactt ccatttgagg agggagaaga agtagcctcc 300  
tcttggctac tatagatgtc ttgactctc atgatcgtgg tttctttgt ggggcattga 360  
gaagcaatgt ggctttccc aatacatttg aagcacttga tgttactagt tctatcttgt 420  
gaactagcct ttggagtgan ttcctctatg 450

<210> 9085  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 9085

cactctaagc accggggcgca taactcttta gccttctatc cggctcatct tccgcattcg 60  
 tatacaaaac tccgtgcaac aactgtctac ccttaacaca tgctgactgc ctttcattaa 120  
 cacgtgattc gctacctgac taagcctatt acataggact ttatcaactc ttaggtagac 180  
 acaacctatg agggatatgg gtctgaaatc acttatatga cgaggatcca cgagcttatg 240  
 gataagagca ttgaatgatg aattgaggcc cttaagaaaa gcagcattca catgaaattc 300  
 tgccataaac cttacaaact caagtttcag ctcatccat agctgctgac taaatatgaa 360  
 agtaaaccga tctgaccctg tgcttttgtc attgccacaa gccacact 409

<210> 9086  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9086

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 gccggagatg caagagaagg ccctagggtt ttcattgagcc ttagggtaga tttcggggccc 180  
 atgggctaag tatgagcccg cttatctttg tacatattag attaagggtt cattatTTTT 240  
 gggccttgta ttttagggctc cataatatag gtaagggtacc ttagaaatgt aggatttttc 300  
 agcccttgta ttttagggca cctagactag tgtttgtatt aggggtagat ttgtaatttc 360  
 acatgcattg agcgaatatt tgatgtgtgt ggctagaaat aaaattaatt gaattgagag 420  
 aagtgttgga 430

<210> 9087  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 9087

ctttccttga gaggatgttc accatgttgc tcatgttggt gcccttatct ctaacaccta 60  
gctcatatca tctaagagtc tattaatagt ggaacttgga agccatttta ttttgaaga 120  
gttaacagag tggaagtttc acaccttttc tttgtcgatg atattatatt agtgggctaaa 180  
gcctccacta agcaagcaaa tgagattaaa agagttatga atttgttcta ctctgcttcg 240  
ggtcataaaa taatttttga taattctagt cttttcatct ctaagaatgt gtataggtaa 300  
agggcaggag ccattgctaa taagctaaat gtcccttttg tggacaagtt agaattctat 360  
ttgggctatc ccattcttaa taaaaggaaa acaacatcta ttataagctc tctagatgga 420  
agtctagaac cttattgcta gctggaacga ttac 454

<210> 9088

<211> 224

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9088

agagcttacg ttggtcaatg ccgagcttct cgatatgcga ttcgcctgaa tcagacatac 60  
atgtgataag ctatactact cgaaattgtc aagagcttgc gatgttcaat tttgaacatc 120  
tcgatatgtt actcgctga atcggacatt cgtctgacaa catattccaa tagagtttct 180  
catatgcttg ccttgatga anggcgccgt cttatatgtt atgt 224

<210> 9089

<211> 444

<212> DNA

<213> Glycine max

<400> 9089

agcttataat atattgatat gtcgaaatt taacattgta agctctcgag aaattcaaat 60  
ggtcataact tttcacacgg atgtccgatt cgggcaaate acatatcgag acgctcataa 120  
ctaaacaacg gaagctatag agaaattcta atgggtcaaaa cttttcacac ggatgtccga 180  
ttcaggcgaa ttacatatcg agacgtcaa aattgaacaa cagaagctct cgagaaattc 240  
aatgggtcat aacatttaac tcgaatgtcc aatttaggcg catcacatat agtgacactc 300  
gaaattgaac aacggaagct ctctgtaa tcaaatgggc ataacttttc acactgaggt 360

ccgattcagg cttataatat atcgatatgc tcgaaattaa acatcggaaa ctctcgcaaa 420  
 atcaaagggc ataactttta cacg 444

<210> 9090  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9090

agctntgcgt gaccgagcac cctaccctgc taatcatggt gttggccatc tcagtgggag 60  
 ctttgctttt atagttnntg acaaactctac ttctaccctc tttgtggcat ctgtaagtaa 120  
 tcataatcct acctaccaa tgatcatgac caccaccata taagctntca tttattttctc 180  
 attttttgca tgtattgttc ttgacaggat caatatggta aggtacctct gtattgggga 240  
 ataactgctg atggctacgt agcatttgc gatgatgcag aattgcttaa tgggtgcttg 300  
 ggcaagtcac ttgcttcttt ccctcaagggt gggttaactt ctattatggt aatgtgntta 360  
 ttatattaca taatattgtgc tgcagggtat gt 392

<210> 9091  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9091

agcttccttc gggagcaagt gttacacccc tccaatagct aagctcacc ctccaaaata 60  
 catgaaaata caaaaaaag tccctaccac aaagactact taaaatgtct tgaaatacaa 120  
 ggctaaaacc ctatactact agggtagccc taactttagt ggtagggttc ccttaatttg 180  
 tagggtagct tacaactta aaatgaccaa aatacaaggc ccaaaagaaa gacaatatat 240  
 tctaataattt acaaagaaaa gtgggtttat acttagccca tgggcccaca atctacctta 300  
 aggctcatga gaacctang gccttctct acatctctag ctcaatcttc ctagagtctt 360  
 ctatccaacg cccttngggg gtaggattgc atcaagttgg acataagcca ccgcatgtgc 420  
 tatactgaga ctcaagaaaa tcagttatga t 451

<210> 9092  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9092

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agcttgtaat cgattacaca catattgtaa togattacca gagcatatTT tcagaanata 60
ttctccacag tcacatcttt ttatttggtt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gccaaagagtt tttcagaaca aaaaggTTTT atcctgttaa 180
aaagcaaaat cgttttatcc tcttacaaat tccttggcca aaacacttgt gattcaataa 240
ggaattatTT gagtgctcaa attgttcaat ctatctcttt taagagagat ttcttcttct 300
cttcttcttt attctgaaaa aggattaaga gaccgagggt ctcttgttgt gaaaggattc 360
taaacacaaa ggaaggatng tccttgtgtg tttagaactt gtaaaaggaa attacaagat 420
agtggaactc tcaagcgggt ttcttggnga ctggacgt 458
```

<210> 9093  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9093

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agctggccag tttaagatgt tagtagtaat attaactntt aagagttcat gttaacaatc 60
ttgctaaaac gtatctttta tgatgtgtta ctactaatTT ataagtttta tattttatat 120
agcaatgatt aacacagttg aagttattaa tttgaagtca ataaataatt aatcagcatg 180
gtaaaataca gaattgatca tgaaggttaa taatatgacg tgtactaatg attgtgtgtc 240
gaaattttcc atatgatgtg tgctagtgat tgtgtgttgg aacttttcat gtgtattaag 300
ggctctcagtt aataataaac aaaattaatt tcttgtataa cagatattgt gaaagttttt 360
ttaagaagtc tttcttatat atacgaataa gaaagaacct aattaatata tctattaatt 420
gtgtcagagc tccctaatag tagtagta 448
```

<210> 9094  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9094

gctatcctgt gacacttaaa tctccgcttt ttcagtcgtc tgtaagatga ttgagtgtta 60  
taaattatgc aagcctactg tatactatctt gtttcccatg ttttagctga tagggcttga 120  
gtgtgcttca cagatggggc atgcatgatg acccttaaca ttggaaccgt tggaaacccc 180  
ctatgctgga aactcattca tggtaaatg aagccttgca cacatttcac acgtctgctt 240  
gcgaaacgca tcgaacacta caaccgcta gtgccacaat tgtcttatat ctgtcgccaa 300  
tggacttaga ttaacatcaa tttcatttgc tagctgtctt gagcccgata tcatcatata 360  
caacatcatg tattttcgct ttatgcac 388

<210> 9095

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9095

agctntgagc aaattgaaat gataataact ttatacacgg atgtccggtt gagtcccgt 60  
atacatcgag acgctccaag ttgaaaacgg agactcttaa aaaattcata cgacaatatc 120  
tttttactcg gatgcccgcac agatcgtcgt aatttatcga gagatgctcc aaattgaaaa 180  
cagaagctcg tatcaaattc aaacgacaat aagcttttac tcggatgccc gacagattgt 240  
cgtaatatat cgagagatgc tccaaattga aaacagaagc tcgtatcaga taaaacgcac 300  
aataactctg tactcggatg tctgattgag tcccataata ttt 343

<210> 9096

<211> 316

<212> DNA

<213> Glycine max

<400> 9096

taacaattat gacctctccg acaacagatt caactctgga tggaggaatc accataacct 60  
cagatgggac agacccttaa caacagcgac aggagcctgc tcctttcttc caaacgcga 120  
gctggcccaa gcagaccata cattggtaca ccaagtctac atccgcacct accccataaa 180  
caggcaacag gtgacgcccc ttcacaacct accctcgaag aagttgagaa gcaaatgact 240

atgctgaaca tgcagtttat gaagagacca gagccttcat tcacagccta accaatcata 300  
 tgggacaatt ggctat 316

<210> 9097  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9097

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 tttcttttaga gacaaaacat gtgtagttag tgagaatatg tacctaatta aaaatttata 120  
 tgaaatataa attgaaggat tgtgcttacc ataatgtgtt acatatgcac atatttgttt 180  
 gatctacctt gtttatattt ttaattataa catagaatct tctattaatt gttataattg 240  
 aattgtttgc atgcaatagt tcttctcttt gagttttgtg tgaaatcata tttctagata 300  
 ttgaattgtg caatgtgcaa atatgtttaa atctatagat gatatatgta tgttgcttta 360  
 atgatcattg aattacataa atgtaaatat ggttgtgcat cccgtcataa atgagtatgt 420  
 tataacttttt att 433

<210> 9098  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 9098

tctcgatata ttatgcacat gagatcggac ctctcgagtga taagatatgg ccatttgaat 60  
 attgcgagag ctcccgctgc tcaatttcgc gcgtctcgat atattatact cctgaatcgg 120  
 acctcctagt gaaagggtgca gaccatctga acttctcgag agctcacgtt gctcaatggt 180  
 gagcgcctag atatatgatg cgcctgactc agagcttcga ggggcacgtg atgaccatcc 240  
 gaatttcacg ggaggtggga gcgctcaa 268

<210> 9099  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 9099

agcttatgtt gcanacattt ataatagacc ttatcagcag gataaccaac aatagcagaa 60  
taattatgat ctttcaagca acagatataa tccagggttg agaaatcatc caaatctgag 120  
atgggcaagt cctccacaac aacaacagcc tgctccctcct ttccagaatg ctgctggtcc 180  
aagcaagcca tatgttcctc ctctaatacc gcagcagcaa caacatcaat cacaacaaat 240  
acaacaagca actaaggctc ctctcaacc ttccttagaa gagttagtga ggaaaatgac 300  
catctagaat atgcaatttc agcaagagac aagagcctcc attcaaagtt tgacaaatca 360  
gatggggcag atggctactc agttgaacca agctcagtc caaaattcta aaaaatggcc 420  
ttcacaaact ct 432

<210> 9100

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9100

ngactctacc ggagatactt tcacaaacat gagagtnttg gcattacccc ctagtgaatc 60  
actcatcaac atagttagct tgtgatttct gtaagggtatg tgttgaccac cagaagacaa 120  
agcactaata acatctccta gtgctgataa tgatttggtg atactttgag cttctttaag 180  
ttgactacct gaagagcccg acntgtttac tctntctgag ccagcaagat ccacaaaact 240  
taactgtatg acaaatgaca tatccagcat aaaaaagtta aaaaaactgc aatgcctcga 300  
ggtcataaaa tacttggtgtt tcacattgcc acaaaatata ggaagaatat ggtatattaa 360  
cattcactat gatattcaaa ggtaaaattg aagtaatgta caccaatacc ttttccttg 420  
cagttga 427

<210> 9101

<211> 350

<212> DNA

<213> Glycine max

<400> 9101

tggatttcct tgtagtttga aatctatcgt tcctaagatg gagcccaacc caatcacct 60  
cattaagaac tagcttggtt ctctctctat tgcctttage tgaatacacc tttggttggg 120



tctctatattg gttcttaact ctctcatgaa acttcttcac aaactctgac ctagattccc 180  
 cttctttatg tataaaagaa gtgtccagtg ggaggggaat gaggtcaaac ggtgttaggg 240  
 gattaaaccc atagacaacc tcaaaagggg actacatgag gaagatactc atcccaagac 300  
 ttatggttgc ctttcagaag agctcttaaa aaagtggata aagacctatt 350

<210> 9102  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9102

tgtgcattca atatcctgat gaggggtgtc catatgttct caagactaga ctaatacatt 60  
 tgctgcccaa gtttcatggg cttgcagggt aagaacctta taagcatctt aaggagtcc 120  
 atattatattg tttcaccatg aagccccctg atgtccaaga agatcatatc tttttaaagg 180  
 cttttcctca ttctctggag ggagtggaaa aagattgggt atactacctt gctctcagg 240  
 ctattttcag ctgggatgac cttaaaaggg tgttcntgga gaaattcttc cctgcatcta 300  
 ggaccactgc catcagaaaa gacatttcag gcatcaagaa acttgggtgga gaaagcttgt 360  
 atgagtact 369

<210> 9103  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <400> 9103

ggaaaacttc acttgttacc atttaaacc tttcctctc atgctaaaga acctttagat 60  
 ttgattcata gtgatgtatg ggggccagcc ccaatcttgt ctccatctaa tttcaagtac 120  
 tacgttcact ttattgatga tttcagcaga ttcacttgga tttttccctt gaaacaaaa 180  
 tcagaaacaa taacggcttt tattcaattc aaaaacatgg ttgaaaatca gttcaacagg 240  
 aaaataaaag ttcttcaatg tgatgggtgga ggtgagtata aacctgtcca gaaaatagcc 300  
 atagagtcag gaatccaatt tagaatgtct tgcccatata cctcccaaca gaatggtaga 360  
 gcagaaagaa aacatagaca tgtagctgaa ctagggtca cactactagc acaggcaaaa 420

atgcctt

427

<210> 9104

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9104

ntntatatttc agtagatgga gatgaatcta tggtcacctc atggaatcct ctaagaacaa 60

tagcatcatt tcttgacta aattgttggg agttggaagc catcttctca atcaaattcc 120

tagcttcagc aggggtcata tcaccaagag atccaccact ggcagcatca atcatactcc 180

tctccatggt gctaagtccc tcatagaaat attaaagaag gagttgctcg gaaatctggt 240

ggtgagggca gcttgacac aatttgttga atctttccca gtactcatc aagctttctc 300

cactaagttg cctgatgcct gaaatgtctt ttctgatggc tgtggctcta gatgcaggga 360

aaaatttctc caagaacacc ctattaaggt catctcagtt gaaaaat 406

<210> 9105

<211> 280

<212> DNA

<213> Glycine max

<400> 9105

tcctctccaa aaacactacc ctcgagaaaa tcctatttga tccatgatcg cgcgtgcaat 60

cttttggttt gataggaaat catgtgcaaa ataaagtcag ggtacaacta tggtttgga 120

ttggggtaaa acacttacct gtgtgagttt ttatacacca tgagtgattt tattcccaat 180

ttcgatttga ccgagcttt ccctgaatg ttcatttaaa agctaaacgt tgacatccta 240

cctttcattt tcggttaciaa ggaaaactat ttttggcata 280

<210> 9106

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9106

agctngccct ttcatccaat ttagactaac caataataaa ttgtttttgt ctccatcttt 60

ttttcgttnt tgcattaaca ttggttatcc tccgcctaac attggttgcac tacccaaacc 120  
 cacatgtaag caccattaat ctgcctcttc aatgctccac accaccaaaa acatgacaac 180  
 atcactactc ctttaccata cgaccaatac ctataaacct agatctgaca cccaaaactc 240  
 aacacattcc tccaaccacc ctcacaaaaa accccattgg cacacaaacc accatcacct 300  
 tagcatcgtg acacaccacc attatagccc tgccaaccca tgattcacca taaccganaa 360  
 ctaccaccac caccatctcc ttctaaatca ttaacctcga ttcanaacat gtttcgatta 420  
 cccacanagc acggttctag aagcanacca taacg 455

<210> 9107  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9107

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 aactcacatc cttgaaaata attacggata aaataacata acaaataata tcaaacaatca 120  
 aacataatta ctaataatat atagatatat atcaagggtg tacaactctc ccaccctttn 180  
 tgaaatttcg tccctcaaat ttacctgact caaacaagga tggatgagct tctcgtatct 240  
 gactctctaa ttcccacgtg gcatcttctc ctgatgcacc tcccagatc accttgacca 300  
 acagaatctt tttccctctt aggtgttttg ttcacctatc ctcaatcctc aaaggcaatg 360  
 tttcatatgt caaattctcc ttcacttgta catcatccaa ttcaatcaca tgggatggat 420  
 cacggat 427

<210> 9108  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9108

agctgttaat gcattatagt atagttttct catatattag aaatattaaa tatctaattt 60  
 catatttgtc ggtaattga tcgactaatt ttattataat taaacactct caattaattt 120  
 ataagttttc agttagcttt caactnttca atagtttata aatttttaac tatcttataa 180

gttttcaagc tagattataa actaatTTTA tcaaacatat tcaaaataag ctactttgaa 240  
gtaatttTgtg gaaaataaat tactaaaata agttcatgta ccaaataatc ttaattttct 300  
tataagaact tacaagctca tcagaagtct caagagtgta tttacaaga catttcagtt 360  
agttattaat ttatttacta actaanaaaa acttatttaa atgttttagta caataattga 420  
gtgtcaaata agaagtctca taactttg 448

<210> 9109  
<211> 458  
<212> DNA  
<213> Glycine max

<400> 9109

agctttctcc actaagttgc ctgatgcctg aaatgtcttt tctgatggca gtggtcctag 60  
atgcagggaa gattttctcc aagaacaccc tcttaaggtc atccagctg ataacggacc 120  
tgtgagcaag gtagtatagc caatcttttg tctactccctc cagagaatga ggaaaagcct 180  
ttagaaagat atgatcttct tggacatcag ggggcttcat ggtggaacaa aaaatatgga 240  
actccttaag atgcttatga ggatcttcac ctgcaagacc atgaaactct ggcagcaaat 300  
gtattagtcc agtcttgaga acatatgaaa caccctcctc aggatattga atgcacaagc 360  
tttcataagt gaaatcaggt gtagccattc tctaagagt cctcttacga aggtggaggt 420  
gagccatgtt ctcatgatga aaattagtag cggaatgt 458

<210> 9110  
<211> 319  
<212> DNA  
<213> Glycine max

<400> 9110

gcttgtaatc gattacacat atactgtaat cgattaccag agcagaattt tagaaaatat 60  
tctcaacagt cacatctttt tatgtggttc ttgaatggct atcaaaggcc tatatatatg 120  
tgacttgaga cacgaatttg ctaagagttt ttcagaacaa aaaggtctta tctctttaa 180  
aagaaaaatc gttttatcct cttacaaatt ccttggccaa aacacttggt attcaataag 240  
gaattatttg agtgggtcaa atgttcaatc tatctcttcc aagagagaat tcttcttttt 300  
ttcttcttca ttctgaaaa 319

<210> 9111  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9111

tccatcatca cgataccgtg ttctattggt gaggttgatg taggcaaagc tcttagactt 60  
 gggagctagt atcaatttaa tgcctctctc catgtgctgg cgactttgag agatagagat 120  
 aatgcccaca cgcatgaccc tccagttagc tgaccgctcc atcacaaggc catatggagt 180  
 cattgaagat gtttttggtga aggttaaacc ccttatattt ccagatgatt tcattgtcat 240  
 agatatagaa gaagatgctg acattcctct cattcttggc tgcccattca tgtctactgc 300  
 aagttgcgtg gtagacatgg ggaagaagat gctgcagatg ggcataaaaag accagaagat 360  
 cagctntgat ttgttccatg aggacaaaaga cccacctagc caaaatgtct gtcttaaagt 420  
 gcatgtgatg gag 433

<210> 9112  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9112

ttgtccgcaa aagttactta aaaccgtttt gaggtccaac gccttanacg gttctctntg 60  
 cttttatcgg ttaacatgga ccgttcaaaa gcataaaatc aacacataac tttactgctt 120  
 ttgcaaaaac tacttaagtt tgatttcctc atcgcaattg aggatacgta ggagcaaaag 180  
 ccccgttttt gtcgaccacc ccaagagatc gttaatgggc caatgcctta acgttttctc 240  
 cctttcaaaa accaagagat cgtttatggg ccaatagctt aatgtttctc tccttttcaa 300  
 aaccaagaga tcgtttatgg tccaatagct taatgtttct ctcctttcaa aaccaagaga 360  
 tcgttaatgg tccaacgctt taatgtttct ctcctttcaa aaaa 404

<210> 9113  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 9113

tgcaatcatt tgggtataaaa ttcacccagc cttgtggctc tacacaaggg tgtctgcaac 60

cttctaaaaat agtatctcct tcctcctatt aaaatcaaaa tgacaatggt aaatgctatt 120

cggaaaaaga tccctccaac caaaacaagg gataaacaga gaacgaagg aaatgcgaga 180

agaaaagaat gtagtaattg tgaaaacaac aaattaagta ccaatgaagt gatgtcacgc 240

cttgtgtagg gagtatgaca actagaagcc aaatcagcaa atctcaacta tagattccta 300

tccatgtaca ttctttaaca taaattcatg gatagtggcg ttctactaaa tgttgtcatg 360

acaagagtat attcattaga catcaaaatg gacgttatag t 401

<210> 9114

<211> 473

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9114

agcttgtcag tttattccca aaaacctgcc tagtcgaaga atatggcttt caattgaatg 60

acaatagtct cttaaataat tcattggcgt atcagttcac tcacttgaat tacaacatga 120

tagatactta actgataaat aatatatatg tgatatgagt aattaattaa aactatatat 180

atataggaca aagatatatt attgattaaa tttttaaaaa acaaaatatt gttagtgatt 240

atttttttaa atgaatatat gtaacataat tagaattgac agtaaactgt atggtaaaaa 300

acacagttat aatattaaga aaaaaattta atcaaactc ctattntaaa tataactatg 360

cttattataa taaaatatta aaataacata attgtatgtg gatgtcctaa tacaactgtc 420

actaatcctt tntaaaagaa actttatact cannattgat aaagtttatc aat 473

<210> 9115

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9115

tgtaatcgat tacacaaata ctgtaatga ttaccagatg agtttttcag aaaatattct 60

caacagtcac atctttttat ttgggtcttg aatggctatc anaggcctat atatatgtga 120

cttgagacac ngaatttaca agagtttttc agaacaaaaa ggtcttatcc tcttaaaaaag 180  
 aaaaatcggt ttatcctctt aaaaattcct tggccaaaac acttgtgatt caataaggaa 240  
 ttatttgagt gttcaaattg ttcaatctat ctctttcaag agagattact tcttttcttc 300  
 ttctttatt 309

<210> 9116  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9116

tcaagcttgc cggtgaacac agttgagatc cgtttggatc accgggcagt gcactcgcat 60  
 tgggtacaacc ttgagagggt tggctttggt gtgttggagg gtgacaagag gaatgagaca 120  
 aaattctcaa gtaggattca cctaagggtg tgtcttgagg gtgcttatca tgtgcttgat 180  
 gagtccacaa tgtatattag tgacacaagg cctactgcta gacaactttg gaaacaacca 240  
 attgggattc ttgaagtggg gatattgagt gcccaagggc tccaatctat gaagaaaaac 300  
 aatgctaaag ggtcaacaga tgcttattgt gtggccaagt atggtcagaa atgggtgaga 360  
 actangacta tcactgagaa gcttaatcca aaatggaatg agcaatatac atgggaagtg 420  
 tatgatcctt g 431

<210> 9117  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <400> 9117

tagactaagt tcattctacc attctcagat tgatggccaa actgaatgga ccattttgtc 60  
 gctggaggac cctttgaggg tgtgtgtctt agagcaaaaag gggagttgga gagttttctt 120  
 ctattgctag agttcactta taataatagt tttcaatcta ccattgacat gactccctat 180  
 gaagctttgt atgatagaag gtgtaggaca cccctatggt ggttggagcc cggagaagac 240  
 ctcaccttag gacttgaagt tgtacaacaa accaccgaga aggtaaagtt gatccaagaa 300  
 aggatgagga gtgctcagag taggcataaa agttatcagg ataaaaggag aaaatgatgc 360  
 aatcctaccc ccaagggtat tggatagaag actccaagaa gattggac 408

<210> 9118  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9118

agctnggtag ctngagaatg ngccacacag atactcctac caagagctca agaaaacaac 60  
 aaaaggggttc aaggacaaag agctacttgg acaaggggtgg attggtagtg tttacaaagg 120  
 aacattgcc aattccaata cccaagttgc tgttaaaaag aatttcacat gactccaaac 180  
 aaggccttag gaaanttggtg tcagaaatag ccagcatagg cccgcttcac cactggaatt 240  
 tgggttcgggtt gcttgggtgg tgtctccgcc gtgggtgacct cctccttggtg tatgatttca 300  
 tggaaaatgg gagcttagat aagcacttgt ttgatgagcc agaaacaatc ttaagttggg 360  
 agcaaagggtt taaggatcatc aaggatgttg cttcagccct tttgtatctt cagaggggct 420  
 atgagccggt ggtgatacat agagatgtga aggctaacaa tgtgcttcta gatg 474

<210> 9119  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9119

agcaagaata tcagaatact catgtcaata cttgataaac ttgctcaacg tctttaaagt 60  
 catcacttta ataaccggat catcactcac aacatattca tgcagaaaac attcaatttc 120  
 ccatacttgc ataaagtagc gattagatgt tggataagat aagcccaaaa tcaaattagt 180  
 catgacataa aagggggcttc aaaaactcac attntttcag cctttccatt tatcatttga 240  
 tggacattga acatagtttc tatcaciaat agccaaacaa ccaaaagcac attggtactt 300  
 aattgcactt tcaagcataa cataggtgga attccattaa gtggctacat ccattctcaa 360  
 acccacctta gtaccaatac cactcacttg aagaacacac tctntgaatg caatctttct 420  
 tgcctccaat ggctttcaca tatttatact atttcttata 460

<210> 9120  
 <211> 429



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9120

atgaatattt tattnttttt tatgataata ctaattntag ttntacttnc ttataaattt 60  
taattnttct ttgtgtttct tcaatatatt aatatatcag agttgaaaat ttaatcaata 120  
tgaatctatg attataaaac tttaggaaaa ttaattaaag ggggtgacatt ttgtaataac 180  
atatcatatt tttttatttg taggaatcaa agacaatgtc aaggggttta caacaactta 240  
cacaccctta gtcaaccaac tgagctagac ccccttgga catgtcacat tntaatttga 300  
ataaaaaatg agacataaaa caaatagaac ttcaatttat ttataaaana atatattaca 360  
aaactntaat tntttttaat aattntgggc cttnttagt tgtgggcca atactatcgc 420  
acctctgga 429

<210> 9121  
<211> 410  
<212> DNA  
<213> Glycine max  
<400> 9121

taacaaaagg catgcgaagt ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60  
taaaaaggga aaaggtaata ttgtagccga tgctctttct cagcgtcatg cattactttc 120  
tatgcttgaa acaaaattga ttgggtctga atgtttgaaa agaattgatg aaaatgatga 180  
aacatttgga gaaattttta aaaattgtga aaatgtttca gaaaatgggt tcttttagaca 240  
tgaaggcttt cttttcaaag aaaacaaatt gtgtgtacct aaatgttcta ctagaaattt 300  
gcttgtttgt gaagcacatg aaggagggtt aatggggcat tatgggggtcc aaaagactct 360  
agagacatta gaagaacatt cttattggcc tcatatgaaa aaagatgtgc 410

<210> 9122  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9122

agctntcaat gttcttaagc aaaagctaac taatgcccc atacttgcgt tgccaaactt 60

tcaaaaatct ttgtgaaattg agtgtgatgc ttcaaagtgtt gggattgggg ctgtgttgat 120  
gcaagaaggt catccaattg cttattttag tgaaaagtta agtggtccta cccttaacta 180  
ttcaacttat gataaggatt tgtatgcctt agtacgggct ttgaaaacgt ggcaacacta 240  
cctttatccc aaggaattta tcattcttag tgaccatgag tccctcaa ataatcaaggg 300  
gcaaggcaag ctttaacaaaa ggcattgcgag tgggtggaat tccatagagca attcccttat 360  
gttatcaaac a 371

<210> 9123

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9123

tctgggtggga catcttgact tgctttccaa tctgacattc accacagatt ctgccttctt 60  
ctattttcag atnggggatg cctntaacag cacctttgtc aatgattttc ttcattgcctc 120  
ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180  
gacatgtgga ggagtagctg gtttcttggg gtgtccatag gtaacaattg tcctttgatc 240  
tgctgcctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300  
agtttacatt gaaccttca tcacacagct gactgatgct gatcaagttt gcagtcagtc 360  
ccttcaccag cagtactttg ttcagactan gaagtccatc atga 404

<210> 9124

<211> 429

<212> DNA

<213> Glycine max

<400> 9124

agcttcacct tcctctcagg ttcaagcttg ttttcaacct caaagttctt ctccaaagcc 60  
ttcacttgat ccacacttag acgacgttc ttctcagatt gataccccgg ttcttcaaca 120  
cacccttctc cgtcgagtcc gtccaacatc gattggaact ccctaccata catgtgttgg 180  
ctgttctctg gactatgttc ctctaaacca atacaaatca gacataatcg ttagtataaa 240  
taaccaacct aaaacatgga tottggtatc gtgtctgaat ttaaaaaaac aaagcaaac 300

aaaaatcaat attatagaag tgtgatttaa ttaattaatt aagcacctgt tgatggacaa 360  
 attgtcatga gggcactgga agaactctgag ctgctaagtc tcttcatgag tgggaaagat 420  
 gtgatctta 429

<210> 9125  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <400> 9125

agcttgtcaa cttatatatc agtgaagtga ttaatttaca taggataccc actagtagac 60  
 actcgtttta cttctagatt ttgggtaagc ttgcaagaag ccctaggtaa aaagttgaag 120  
 cttagttcag cttatcacc ccaaacagat ggtcaaactg agagaaccat tcagtcttta 180  
 taagacctta tgagagcttg tgtaatagga caaaagggtta tttgggatga gtatttacct 240  
 ctagtggagt ttaccacaaa caatactttt catgctagta tacatatggc tccatttgaa 300  
 gccttatatg ggaggaagtg tagaacacca ttatgttggg atgagactgg tgagtctctt 360  
 ttgatagtgt tgagtttggg tgcattcaag tcacattgga ctgtacaaa caaagttaaa 420  
 tcctgagggt ttgatgtaac 440

<210> 9126  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9126

taagaaacag ttagaggagc tcttagggaa acaatttatg aggcctagtg catcacctg 60  
 nggagcgaca gtgtgttag ttaagatggg accatgaggc tatgtgtaga ctattatcag 120  
 ctgaacaagg tgacgattaa taataggtac cctttgccta tgatagatga catgatggac 180  
 caaatagtgg gggcttgtgt gttcagtaag atagatctca ggtcaggtag caccatatta 240  
 gagtgaagtc taaggatatt ccgaagactt cctttaggac ccattacgac cattatgagt 300  
 acttggttat gccttttggg gtgaccaaca cccatgggtg gttcctggac tagttgaata 360  
 ggatctttca tcctaccta gatagttntc tagtggctt catagatgat accttggg 418

<210> 9127  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9127

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agcntttgac atgactgggc tangaaagat gagattcttt cttggcattg aagttttgaa 60
gaaatcataa cggattctct tgtgtcaaag aaaatatgcc actgatatct ggaagaagtt 120
tgcaatgtct aagagcatac ttgtgaaaag tccaattggt tcaggcttta aaattattaa 180
agatgctgat ggcgcagctg tggatgacac ttatttcaag caaattgggt gaagtttaat 240
gtatcttaca gctacaaggt cagatataat gtatagtgtg agcttaatta gcagatatat 300
gccaaaacca acatagttgc atttacaagc tgctaaaaga atataatgta tttaaaggaa 360
ctc 363
```

<210> 9128  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9128

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atactaagct tatggatttc tcataagctt aatatcagaa agggacccaa tattcatgag 60
tcaattctag cacgagcttt tcaagttgta tgggactaag ctgcgtatga gcactgctta 120
ccatcctcaa agtgatggac aaactaaagt gcttgattga gttttggaac aatatttgtg 180
ggtgttagtg catcataagc catcctaagt ggataagttt ttgtatcttg ctgaatgggt 240
ctacaacccc actactcatt tagccactaa tttaacctcg tatgaaattg tttatggtaa 300
gcctcctcct agtattttcca attatcaagc tggaaccttt gccgtggaag caattgaatt 360
ttttctgact ttgcgccaag aaacctttca cctacttagg aagaagcttg aaaaggccta 420
ngaacatatg anaaagaatg 440
```

<210> 9129  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 9129

agcttatacg gcctaggatg tggttntgtg actaaattca atttaaacac aagtcttgca 60  
cttgccacat tgggtacaact ccctccatca atgatacaca tgcaaaacttt gtcattgatc 120  
aaacatctag tgtggaaatt tttttctctt tgactntcct ccatagactt caattgatgg 180  
ccaagtaacc gtctaatacat caacaattct ccctccagtg ttttctccac ttcctcttca 240  
tcatactcac tctcttctcc cttttcaact tcggactcac taatatactc tccatctcta 300  
agaatcatgg ctttcttggt agggcactca tatgcataat gtcccaagcc ttggtgtaac 360  
atccccatttt ttcgtatata aaattntaga gaataatgat gttttataat taaataaata 420  
aagaacaata gttataataa aataatgggt tgagagaaaa taagaagagt attttattat 480

<210> 9130

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9130

agcttcaaca tcagaccact tccaggggtg tggaactact tcgcatggac ttgatggngc 60  
ctatgcaagt tgaaagcctt ggaggaaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240  
atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcactctc 300  
atgagttctc tcgagccatc acaccacaac aaaatggcat agttgaaagg aaaaacagga 360  
ctttgcaaga agctgctagg gtcatgcttc atgccaaaga acttccctat aatntctggg 420  
ctgaagccat gaacacagca tgctatatcc acaacagagt cacacttaga ag 472

<210> 9131

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9131

ntgagcaaat tcaaacgaag ataactntat attcgatgt gcgattgagt cccggaatat 60

atcgagaggc tccaaattga aaacggaagc tcatatcaaa ttcaaaggac aataactntt 120  
 tactcggatg tccaatagag tcccgtata tatcgaaaca ctccagattg aaaatggaag 180  
 ctcgatatcaa attcaaacga caataacttt ttactcagat ctccaataga gtcccgtaat 240  
 atatcacgac gctccaaatt gaaattggaa gctcgatatca aattcaaacg acattttactt 300  
 ttaacttggga tgtccgattg agtcccgtaa tatatcgga cgctccaaat tgaaagcaga 360  
 agctctaagc atattcaaac aacaataact tnttattcgg at 402

<210> 9132  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9132

agctntgagc caattcaaac gacaataact ntntactcgg atgtctgatt gagtcccgta 60  
 atatatcgag accctcgaaa ttgactgttg aagctctgag ccatatcgag aactcga 120  
 ttgaatgttg aagctctaag ccaattcaaa cgacaataac tattttctcg gatgtcctat 180  
 tgagtcccgat aatatatcca gacgctcgaa attgaatgtt gaagctctga cccaattcaa 240  
 acgacaataa ctttttactc ggatgtctga ttgagtcctt taatataacg agacgctcga 300  
 aattgaatgt cgaagctctg agccaattca gacgacaata actttttact cggatgtttg 360  
 attgagtccc gtaatatatc tagaccctcg aaattgaatg ttgaacctct g 411

<210> 9133  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 9133

tcaagaatta tggcctcatc aaactacttg tttcccgagg gaaattctat aaatagacct 60  
 cccatcttta atggagtggg ttaccactat tggaaaaatt ggaaaacccg catgcaaata 120  
 tttatagagg caatagattt aaatatgttg gaagccatag aacaaggacc ttatgttccc 180  
 tctatagtgg cgggttgtgc aacaatagaa aaacctagag cagattggat tgaggaagaa 240  
 agaagattag tacaatataa tttaaaggcc ataaatatta ttacatctgc cctaggaata 300  
 gatgaatact ttagggtttc aaattgtaaa agtgctaagg atatgtggga taccctacaa 360

gtaacacatg aaggcacaac aaatgttaaa agatctacga taaacacatt aactcgtgaa 420  
ta 422

<210> 9134  
<211> 350  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9134

tctaaactnt gtacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
tcttaagaag ggggggggttg aattaagata ttccaaactg tttcccctaa ttaaaaatct 120  
atttcacttt ttactcaagt tatgaattcc cttaatgaca atcttcttaa atattaattc 180  
aaacgaagca acttgaatat gaatttaaag ccataataaa taaaggagat taacggaaga 240  
gaaaatgcac actcagtttt atactgggtgc ggccacaccc ttgtgcctac ttcagttccc 300  
agcaaccgcg tgagagtcca ctatcttgta aattctttac aagtctaaca 350

<210> 9135  
<211> 372  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9135

agcttctcga tatattatgc acatgaatcg gacctccgag tgacaagtta tggccatttg 60  
aatntttcga gagcttccgc tgctcaattt cgagcgtctc gatatattat actcctgaat 120  
cggacctccg agtgaaaagt taagaccatt tgaatttctc gagagcttcc gttggtcaat 180  
tttgagcgtc tcgatatatt atgcgcctga gtcggacctc cgagtggcaa gttatgaaca 240  
tatgaatttc tcgagagctt ccgttgctca atttcgagcg ttagatata ttatactcct 300  
gaatcggacc tccgagtga aagttatgac catttgaatc tctctagagc ttgcgttggt 360  
caatttcgag cg 372

<210> 9136  
<211> 419  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
<400>        9136

```

tggtaaccta ttggaggctc ccaacacact tccaatgaaa gacctttttg ttacaaaact   60
tgaacgcaat gaaggtaagt aaattgccaa ttacaaaatt acaaaacggt cctcaatttt  120
ggtggttggt ctctcttttg tgatttactc aatttggagt gattcttagt ccaatagctc  180
ttaagttggt tggccccctg cttcttgact caaatctctc aagggatggc accaatcctc  240
ctttctaatt ccctatatgg caactcacia acaaggagac aaagagacaa gcaataacca  300
aagacaaaaa aaaatgaaat gaaagctaaa ccaatagagt tttaacaaga caaattttca  360
aggattattc aacaattaa gcaatgaaaa gcacataana gcaagctagg actcaaaga   419

```

<210>        9137  
<211>        450  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        9137

```

gcctgatgcc tgatatgttt tttctgatgg cagtggctct agatgcaggg aagaatttct   60
ccaagaacac cctcttaagg tcatcccagc tgaaaatgga cctgngagca aggtagtaca  120
accaatcttt tgctactccc tccagagaat gagggaaaagc ctttagaaag atatgatctt  180
cctggacatc aaggggcttc gtggtggaac aaacaatata gaactcctta agatgtttat  240
aaggatcttc acctacaaga ccatgaaact tgggcagcaa atgtattagt ccagtcttgt  300
taacatatgg aacaccctca tcaggatatt gaatgcacaa gctttcataa gtgaaatcag  360
gtgcagccat ctccctaaga gtccctctcac gaggtggagg ttgagccatg ttctcagcaa  420
aatcagaata ttcagaatcg cccctcaaca                                450

```

<210>        9138  
<211>        405  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        9138

```

agctngaagg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcaga   60

```



aatctgtacc tgtcgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120  
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acggtagagc aattatgacc 240  
 tctccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tgggccagcc 300  
 ctcagcaaca acagcagcag cctgctcctt ccttccaaaa tgctactggc ccaagcagac 360  
 catacattcc tncaccaatc caacaacagc aacaacctca gaaac 405

<210> 9139  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9139

tgtcagttgt gtcattgtga ttttttttaa agctatacac tagtgaaata gtgatgactg 60  
 atgagtcata atattctgtg atacaaatgt atataagtgc atatacaata tgcatatcat 120  
 aacttaaaga aaaaaataat atacatacat atatgtttta gaactaatat cacatttaca 180  
 ctttatttgg gctgattatt agttntatit atttttttaa taaaactagt ttttagtttc 240  
 taatttgagg attttttatt tctgggttta aaagttaaat gtcaatctta caattttctt 300  
 aaaaaagata aaaaaaaaaac atgtagggct ctttacatga agttgtgata aaaggatcca 360  
 gagcaagagt ataataaaat agaataataa atatttttagt ggcttttgtg agttaaactc 420  
 atattgg 427

<210> 9140  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9140

agcttgtctg caataccata gggttattag ttntaaaagc attctctgtt taagaaaaga 60  
 taagaagggt gattcaattg ttcatgcctt ggttactgaa taacttccgt tgtgcttagc 120  
 aattcttttg tgggtggcatc ccatgctcta atgtcacaac ccaatcataa aggagcctac 180  
 atatatgtat ataccaaaaa aaatgtactt agtatgcana atatnatttt cctcaagcaa 240

ttctttatat ggaaatgtct aagcaacatg tggttaannat tttggtacaa gttaccttag 300  
 ctaatgccca tatgctgaaa tgagcgcgat attcttctntg tgtcatgcct ccatttccaa 360  
 cttctagcat gt 372

<210> 9141  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
 <400> 9141

tattgggcat taaagttttt gaacttcgat tcaaatgcat ctagtgaaca caggaagctc 60  
 caactccatg aattggagga attgtgggtt caagcttatg agaattccaa gctttataag 120  
 caaagagtaa aaatttatca tgacaaaaag ttgtcaaaaa gaaattttca gcttggtcaa 180  
 cacgtattgt tattttaatta tagattaaga ttgtttccag gtaatctgaa atccaagtgg 240  
 ttcggccat tcatcatcaa agaagttatg ccacatggag cagtga 286

<210> 9142  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <400> 9142

tggaatattt caagcaagag tttggagtgc acattgaagt tacaaagatg tggagagcca 60  
 tgaaagaagc aaagcaatta gtggaaggga atgagaggaa acaatatgcc aaagtatttg 120  
 attatgcaca tgaattgttg aggagcaatc ctggatcaac agttaagatc aacacagtgc 180  
 caagtccaga aggtccacca caatttcaga ggctatatat ttgtcttgcg ggctgtaaga 240  
 aggggtttgt tgctggatgt agaccattca taggtctaga tggatgtttc ctaaagagtg 300  
 catttgagg aaacttgctc tctgctgttg ggcttgatgg caataaccac atctatgtta 360  
 ttgcttatgc tgttggtggac a 381

<210> 9143  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9143

agctngaagg caaactggat gcgttggtca acttggtaac ccagctggcc ttgaatcaga 60  
aatctgtacc tgtcgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc atcgcagagc aattatgacc 240  
tttccagcaa tagatacaac cctggatggt ggaatcacc taacctcaga tgggtccagcc 300  
ctcagcaaca acaacagcag cctgcttctt cctttcgaaa tgctgctggc ccaagcagac 360  
catacattnc ctcacnncat ccacaacagc aacaacc 397

<210> 9144  
<211> 293  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9144

tctatagaag gttcgttcct aatttctcta caattgcatc tcctctcaat gagctggtga 60  
aaaagaacgt ggcatttacc tggggtgaga aacaagagca agcctctgct ttgctcttag 120  
aaaagcttac ctaagcacct gttctagctc ttctgactt ttctaaaacc tttgagctag 180  
aatgtgatgc ctctggagtg ggaggtggag ctgtattgnt acaaggtggg caccctattg 240  
cttatttttag tgaaaaactt catagtgcc aacctcaacta cccacctat gat 293

<210> 9145  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9145

agcttgtaat cgattacaca catactgtaa tcgattacca gaggagattt tcagaanata 60  
ttctcaaca caacatcttt tcatttgggtt cttgaatggc catcaaaggc ctatatatat 120  
ctgacatgag acacgaattt gctaagagtt tttcagaaca acaagtattt attctctcaa 180  
aaagaaaaat cgttttatcc tcttaagaat tccttgtcca attcaattgc aattgattaa 240  
ggaatcattt gagtgtcat attgtaaaat ctatctcttt caagagagat tcattcttct 300  
tctctttcta attcactaag ggattaagag accgagggtc tcttggtgta aaagaattct 360

aaacacanaag gaaggattgt ccttgtgtgt ttagaacttg taaaagggat ttacaagata 420  
gtggaactct caagc 435

<210> 9146  
<211> 429  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9146

tcttagtctc agatgatgca gctaagtttg tagctatctc atgcactcct ctaatgacta 60  
tggcatcatt tctggcgcta aactgctgag agttggaagc catcttctca attaaatttc 120  
tagcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
tctccatatt actgagtcct tcataaaaat attggagaag aagttgctct gaaatctgat 240  
ggtagaggga actcgcgcat agttttttaa atcgtccca gtactcatac agactctctc 300  
cactaagttg tctaatacct gagatattct tctgatgac tgtggctctg gaagcagggg 360  
aaatnttttc taagaatact ctcttaaggt catcccagct tgtgatggac cttggagcaa 420  
ggtaataca 429

<210> 9147  
<211> 285  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9147

agcttagcca ataaatgata ttctccaaag taaagtagta atagggtatt aacaagtgat 60  
atattaccca attcttcata accaagttac taatgttgga ttaaaataaa tgcttgaaca 120  
ttggctagaa agaagacgag aatgatactt ggtaagcaca cgaccaccaa tgctaaatgc 180  
agactcatta atgatagttg gtattggaat gcttaacaca tcacatgcca acctacaaag 240  
atatggatag cagtcttggc ggtccttcca atagctcana acatc 285

<210> 9148  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 9148

agctttgagc aaatttatac gacaatatct ttctagtcgg atgtcttatt gagtccctgta 60  
atatatagag acgctcaaaa ttgaatgacg aagctatgag caaattccaa cgacaataac 120  
tttttactcg gacgtctgat tgagtcctcg aatatatcga gacactcgta attgaatatt 180  
gaagctctga gccaatcca acgacaataa ctttttactc ggatgtctaa ttgagtcctg 240  
taatatatcg agacgctcga aagtgaatgt tgaagctttg agccaattca aacaacaata 300  
acgttttact cggatgtctg attgagtcct gttatatatc gagacgctcg agattgatgt 360  
tgaagctctg 370

<210> 9149

<211> 293

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9149

tctagtctca attntgaacg tctcgatata ttaccctatt caatcggaca tccaagtaaa 60  
aagttattgt cgtttgaatt tcctacgagc ttccgttttc aatttgaggc gtctcgatat 120  
attacaggac tcaaccggac atccgtgtat aaagttattg tcaattcaat tttctcagag 180  
cttcggatct aaatatggag cgtctcgata tattacggga ctcaatcaga catccaagtt 240  
aaaagttatt gtcgtttgaa tatgatacga gcttcnatt ctaatttgga gcc 293

<210> 9150

<211> 403

<212> DNA

<213> Glycine max

<400> 9150

tttgaagga tcaagaagtg ccttatgaat cctcccgtag ttatgccacc agtacctgaa 60  
aggcctctca ttttgtacat gacaatcttg gacgagtcaa tgggggtgat ggtggggcaa 120  
catgacgaat ccgggaagaa agagcgcgtt gtttactacc taagtaagaa gttcacgacc 180  
tgtgaaatga attactcctt gctctaaaga acgtgttggt ctttatgatg ggcatcccat 240  
cgccaatgc agtgcagct gagccatact acctggttga tatccaagat ggaccgggtt 300

aagttcatct ctgaaaagcc agctctcacg ggacgaatcg cctgtggca agacctgcta 360  
tccgagtttg atatagttta cgtcatccaa aatgcgatat aat 403

<210> 9151  
<211> 360  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9151

agcttcttaa ntcttatgat nngagttac ctcgtgcact cttctaataga ctatagcatc 60  
atttctgggtg cttaaattggtt gggagttgga agccatcttc tcaattaaat tcctggcttc 120  
agaaggggtc atgtctccaa gggctccacc attggcagca tctatcatac ttctctccat 180  
gttactgagt ccttcataaa aatattggag aagaagctgc tcagaaatct agtggtgagg 240  
gcaactcgcg cgtaattttt taaatctctc ccagtattca tataggctct ctccactgag 300  
ttgcctgatg cctaaaatat cttttctgat ggtcgtggtc ctgcaagcag ggaaattttt 360

<210> 9152  
<211> 425  
<212> DNA  
<213> Glycine max  
  
<400> 9152

cgaagggtgtc gaaatcctac ccctccaaat tgttttttta ttgataattt ctcccaattg 60  
aaccaatgga ttccattctc ttgattgttg ttgctttccc accaattatt ttcttttagtt 120  
cctcttgaag tgtagaagaa agaagaaaaa caccatgca atatgatgat atagactgtg 180  
ctagtgactt taaaaaatt tctttacctg ctttagagat gaacttcctt gaggaacca 240  
aagatagctc ttttcttct ccctatgacc gatggtagcc ccagatattt tcctattcca 300  
atgggtgttg tcaactctaa aaaggatgag atgaattgcc tattgttttg agatgtattg 360  
gagctgaata gaatttttga ttctagaaa ttaattaatt gtccaaatgt catctcttac 420  
atgtc 425

<210> 9153  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 9153

aatctaagct gatctttagt gtgtatctgt atcttttttc cttttgaact attcagtttg 60  
aatgcgaact ttaattatct ttaattcgt tcctaaagat tgatcgccaa atctgttgct 120  
aactgcacaa taatctgttc aagatataac agatttatgt gttcagtttt tccggcacga 180  
tgtcctggac attgtttccg acatccggga tcctgcataa tctgttaaag atataacaga 240  
tgtatgtgtc cagtattgtc gggcaggatg tc 272

<210> 9154

<211> 336

<212> DNA

<213> Glycine max

<400> 9154

agcttgaaga cttgtacatc accaaatctc tggtaaattg tctctacctt atgcaagcat 60  
gtattcattt aagatgcaag aaaataaaac ggtagaagaa tagtttagatg tctttaataa 120  
atcgattctt gatcttgaaa acattgatgt tactattgag gatgaagatc acgcattagt 180  
gttattgtgt gttctaccta agacctttgc tcatttcaaa gaaacacttc tctatggaag 240  
agattctctc actcttggtg aagtccaatc agccttgaac tctaaggaat taaatgaaag 300  
aaatgaacaa aggccttctg tacatgggga gggact 336

<210> 9155

<211> 341

<212> DNA

<213> Glycine max

<400> 9155

tcatgcaaac ggcttaaaat aaaagtatta ctttcttata tttaaacttt gccaatgat 60  
ttttcccact tgtaatgcaa tgggtgcaagg gagttctttc atgatagtca cacatgttta 120  
catcagcacc aaattggagc aacaactcaa ccatcagtgc actgccagaa tgacatgcca 180  
tatgtaatta tgaccatcca cggaaacacc tatctgtctc agtagtctct tcaactctca 240  
gacaggcttc aggatcatgc tgatgccctt tggcatcctc agcatggtga gactcatcat 300  
aatactttgc gtttatcaga tttgatgttg atgtgacaat a 341

<210> 9156  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <400> 9156

taacattaca ataaacgcat aaaaaaagaa agcaagtttt aattataata aacataataa 60  
 taagtataat attgattaat aagcataatt tgtcagttac tctgaaattt ctattgtgac 120  
 aacattaggt agtggcaaaa ttaagttgaa tctcattttt tttaaggatt aacttaatga 180  
 ttgtgtattt ttttgtttga gtctcatttt ttggataagc tactgtgaca ttagaaattt 240  
 cagagcaata aatagattat gctcattaat caatattatt cttattatta tgtttgttct 300  
 aacttaggct tgtttttttt aagtgtttat tgtaatgtta tgcttacaat gattaaaaaa 360  
 agggagaaga tgaagattaa attatatttt tggtaaatag tcattttcat ccttgaatgt 420  
 atagag 426

<210> 9157  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9157

tagaatattg cagcaatatt atattccatc agttcgtaa ctatcacgct tagntggagt 60  
 ctgcaaagcc ccaatcattc aacactttgc tgaacaatt tctggtacta caactattag 120  
 aagctttgat cagcagtcaa gatttcagga aacaaatatg aaactgactg atggatattc 180  
 tcggccaatg ttcaatattg ctggtgccgt ggaatggttg tgtttccggt ttgatatggt 240  
 gtcttctatc acatttgcct tttccttaat attcttaata tctattccac acggattcat 300  
 agatcc 306

<210> 9158  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9158

ntcaggtttt ccactacgat tggttcagta ccattgttga acacaaacaa gtgcgcttgg 60



ttcatcactg ctagctcagg atagaccgg gacaaaatgt ttgtcttccc tctgctcca 120  
aaactctcca caactgagtg atcaatcttc cattcatttg aaaaaacaaa gaatattaaa 180  
taattataca ttagtatttt ggagctcata aatgctatat attgttggtg aaatcctgat 240  
ccatttggtg ataaattagt tagctttcat ttttagaaa attagttaat ttgttagtag 300  
tctgttgctg aaaaacagaa aatagtgtgt taagttgtaa ttctcagttt catcttttca 360  
gccctttcac aatgatgtat taatacaatt gatcattcaa taagataagc tgaatgagt 419

<210> 9159  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9159

tccaaccata tgatcataag anagggaact agcagggcaa ttctcctgtg gatccaaaac 60  
catgacttta atggccatct gagaagcagc ttgacatata attcgaccaa gttgccctcc 120  
tcccagaacc ccaacaacca cttcagttag tccatgaaca ggtgactcat cattcctgca 180  
cacaccaata ccaaattttg ggcttttcat gagattttca gggtcagaca cttctaata 240  
ccagaaattt tacattttatc ttcctaagtt gaagaaagct gagaaaagg tcaaaacccc 300  
tacaactaga aaacaagcgc caaaaataaa aatgcaaaaa ataaccttag agaaactgca 360  
tcatcctgtg ttgttgcttg acaagcaaga tggggttggt cacactg 407

<210> 9160  
<211> 424  
<212> DNA  
<213> Glycine max  
<400> 9160

cttggcatct aagatatggc ctttgaata tgctatgtgc tgaaattgct acactccaaa 60  
gatacgggtgc aggggctgcc taaaactgga gagcttgagt tgtgtgaagg ttgcatttat 120  
gggaagcaat caagaggatc atttccaaca ggcaaagcat ggagagcaag tgagtgcctt 180  
gaacttcttc atgcagactt atgtggccca atgaaaatag tctcactcga tggaagtaag 240  
tatttcttgc tcatcacaga tgattacagt agaatgagct gggtttatct tcttaaagct 300

tagtctgaag catttgaaag ctttaagatt ttcaaggcta tggttgaaaa acagtctggc 360  
 ttgtatgtta tagctttgag aatagacaga ggtggtgaat tcttgtcaaa tgaattcatt 420  
 actt 424

<210> 9161  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 9161

gtgagcaaat ttaaacgaca ataacttttt actcggatgt ccgattgagt cccgtaatat 60  
 atcgagacgc tcgtaattga aaacagaagc tctgagcaaa ttcaaacgac aataactttt 120  
 gactcagatg tccgattgtg tcccgtagta catcgagacg ctcgtaattg aaaacggaag 180  
 ctctaagaaa atccaaccac cattaccttt tacctcgagg gcgggttgag gccctcaaaa 240  
 tatttagacc cctcaaattg gaaacc 266

<210> 9162  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 9162

ctcatctgta ttgtcttcgt gcgattactt tttctctctc tatgaatatt atctcgcaaa 60  
 ttccaacgat gaagggtgtga ggaatagaat ctcaaaccac atatcaaaat ttcatgaaag 120  
 tccaatgggtt aacgaaattg ggatcatagt ttactggga cggttttgga tttttgccga 180  
 aaaagaaaat gttatgatgc gaattgtatg tcttcaagct ccgatatcgt ttcataattt 240  
 ccctacggtg gga 253

<210> 9163  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9163

agcttaagct ctttcaactg cacaaggctc ttaatatttg aagagtatcc ttgtggaacc 60  
 ttcacccgac gaagacactg acaaaaactt atcttctcct tcttggaaca agtatggcag 120

gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcttataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccatccttgc tcttgccctg aattttaagg 240  
 agcgtcccaa tcacactgtc acaaaaattt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacca gtatggaaga tcaaagaana tggacctctt cttccatag 360  
 caactctgac 370

<210> 9164  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 9164

agcttatcac ccacatcgcc aattgattaa tagcttttaa tgggagtcag gaaaatgaaa 60  
 gtgcgccgaa accattaact ggaaaaaag tttatgcttg gatcaaaggt atcctaacta 120  
 tttttgggta gaacccaaag aaagcatcat ctgagactaa catatagaaa aaaaggtcaa 180  
 tgttctttga tctttcgtac tgggtccgac ttgatgttag acattgtata aacatgatgc 240  
 atgcggagaa aaatgtttgt gatagtttaa ttggcaccct tcttacatta aaggcaagac 300  
 aaaggat 307

<210> 9165  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 9165

tgcaaacaga tttcgcaagg gtcaccctac cagcatttaa aatagttcta gctttccacg 60  
 tacttaaccg ttgatggact tcgtccatga taagttggaa tggtcctcgt gatacctttt 120  
 tatgaaaaat aggtacccta aggtattttc caaggtcatc agtacactga ttaccatatt 180  
 cctcgcttga ttaccatct cctcgctcga ttgattccta tgtgacactc aaacattttt 240  
 agagaaatgc atacgagatt tctctaagct aatcttctga ccagaactct tgcaaaataa 300  
 atttaaaata ttatgaatca agtggactta ttctagagaa gctcccgcaa acaaaagcaa 360  
 gtcacttgca taggtcaagt gcgatcagga acaaaactag actacaacaa tatta 415

<210> 9166  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9166

agcttcggat tgtaagtatt ggattggata gctcgtgctt ccaagctaca naataaattg 60  
 aacccaaata tgatactcct cgttttttat ataaaattca attacttaat ttatcanatt 120  
 caaaaaaaaa ttaattgata tcaataaatt tattttacat ttataacttt nttttaaatt 180  
 ttccttatca ataatatctt atctcttcta atagtttatt aatatatttt gtttcttatt 240  
 ttaatgagag atgttttttag tataaaaaata attaatacaa aaaatattat aaattgagtt 300  
 ttataaaaaa aaataaacat caa 323

<210> 9167  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9167

agcttctgcg agcaggcatg aacgtgtttc gcttcaactt ctcccatggg tcccacgagt 60  
 accaccagga aaccttgaac aacttccggg cggcattgag aacaccggta ttctctgcgc 120  
 cgatcatgctc gacaccaagg cacgatacga ccaccagatt cgattttcat attccatatt 180  
 ctccccctttt tgttcgattt ggatttattt tatttattta tattctcatc gccgattttg 240  
 ttttgattta cttttaaatc ttgtgtttta attgctaattg tttatgattg gattagggtta 300  
 tgtataagcc ggtgctatta ttattattat ctaattcta 339

<210> 9168  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9168

tggagttgga gcattgatta tgctgttggtg atgttattgg ttcatttgct tgacagatca 60  
 aagtgtcttt agttatgac ttcttctggg tatctgttaa gagtctatga agctgtacca 120  
 aatttcctag tagcttttag tttgtttaat tcagctgaag gggtgtttat tgttgtactg 180

ttgcttcttg gtacgccttg taccttgata cttttcttat taatgaaaag tattttgctt 240  
 tgttaaaaaa aattaacaat gttttaaacg agcatataaa attaaaaata aatgtttatt 300  
 taattactca ataagtatgt tgatttgatt ttcttaattt atcattttaa taaaagatat 360  
 ttcaactttt ttttaataa attaatctc tttgaatgat attaaataca attaatta 418

<210> 9169  
 <211> 290  
 <212> DNA  
 <213> Glycine max

<400> 9169

agcttcaacc aaggggtgat ggaccattta agtgcttgaa agaatcaatg acaatgctta 60  
 caaagttgag ctgcccgtg agtataatgt tagttccacc ttcaatgtct ctgatttatt 120  
 tctttttgat gcagatggag aatccgattt gaggacaaat ccttctcaag aggagagaa 180  
 tgatgagggc atgaccaaga gcaagggcaa ggatccactt gaaggacttg gaggacctat 240  
 tgatgaggac atgacaaaaa gcaagggcca ggatccactt gaaggacttg 290

<210> 9170  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9170

tgtttcanac catagatgga tttatttagt ttgcaatctc atagactttg agtcacttaa 60  
 tacaaagttt tctgggtgca tcatatgaat tgtttcttca atgtcaccat ttagaaaaac 120  
 agtcttaaca tccatctgat gtagctctaa atcacagtga gctaccagtg tcattattgt 180  
 tctaaaagaa tcctttgaag atactggaga aaaagggttc tttatagtca atgccttctt 240  
 tttgggtaaa tccttttagt actagacgag ctttatatct ctgcacattt ccctttgaat 300  
 cccttttgct tttaaatatt tttttgcaac caatagggtt cacactttta ggcaatttga 360  
 ggagatccca aacgtcattg tcttgcatag atttcatctc atccttcatg gcattgatcc 420  
 agt 423

<210> 9171  
 <211> 398

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9171

tntggaagga tcaagaagtg ccttatgaat cctcccttgc ttatgccacc agtacctgaa 60  
 aggccctctca ttttgtacat gacaatcttg gacgagtcaa tgggggtgtat ggtggggcaa 120  
 catgacgaat ccgggaagaa agagcgcgtt gtttactacc taagtaagaa gttcacgacc 180  
 tgtgaaatga attactcctt gctcgaaaga acgtgttgtg ctttagtatg ggcaccccat 240  
 cgcctaatagc agtacatgct gagccatact acctggttga tatccaagat ggacccggtt 300  
 aagtacatct ttgaaaagcc agctctcacg ggacgaatcg ccccggtggca attcctgcta 360  
 tctgagtttg atatagtcta cgttacccta aatgcgat 398

<210> 9172  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<400> 9172  
 agcttcagca aagggatcac aggtcattac gggtaaattg gcgaagcggg tttatggacc 60  
 ttttcaaatt gaggaacgca ttgggtctgt tgcttatcgt ctcagggttac cggcagaagc 120  
 tcgcatacac cctgttttcc actgttcatt ataaaaacca ttcaaagggt cactggaatc 180  
 ccgtccacaa gtttactggc cgaacacaat tatccagcat caacccttga tcatgccttt 240

<210> 9173  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9173  
 nttcactcgg agatctgatt caggcgcata atatattttg acgcttgaaa atgaacaacg 60  
 gaagctctcg agaaattcca atgctcatta cttttaactc ggaggctctga tttaggcgcc 120  
 taatatatca agacgctcga aattgagcaa cggatgctct ctagaaattt aaatgggcat 180  
 aacttttcac tcagagggtt gattcatgtg catgatatat cgagacgctc gaaatttaac 240  
 aatggaagct cttgagaaat tcaaattggc ataaccttaa actcggagggt gtcatttagg 300

cgcggtattat atcgagactc tcgaattata tcaatggaag ctctt

345

<210> 9174  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 9174

ctttgttcaa ggactaaaaa cttagttaat cttttctttt ctcttagtc tgatcctggt 60  
ttgggttgctg gtgcacttgc tactgtcatg ggttcatgct tatgttttat atcctttttc 120  
taggaaatgg accatctgaa gatggcagtg gcaaagatag cttcacacca accaaacatc 180  
ttgttgggtg agaaatcatt ctacgatat gcacaggaat atcttcttgc aaaggacata 240  
tctctggttc tcaatgtcaa gagaccatct ttggagcgtg tagcacgttg cacaggcact 300  
catatagttc cttcaataga tcattcttct tcacaaaagt tg 342

<210> 9175  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9175

agcttgctcg tcttgctgat atttatcatg cagactnttc tgatgatgac cgaggaacaa 60  
ttagggatca acttgaaact tatgtgcttt aaggaagaa gaaatgcttc tttttccact 120  
tgtgaaaatg ttcaaagttt ggctatgaag atgggtcaaa ctgagaaaca ttnggtat 180  
ccattgggtt ataaacttat tgagctagct ttgatattgc cgggtgctgac agcatccggt 240  
gaaagagctt tttcagcaat gaagattatc aagtctaaat tgcgcaataa gatcaacgat 300  
gt 302

<210> 9176  
<211> 306  
<212> DNA  
<213> Glycine max

<400> 9176

agcttgctat cccctctctt ataaggattt atatttcctc atccgattct gatgatgatg 60

tcgaactaca tgtctcgaca tctaagaggg ccaagaaatc tggaagaaag tgcctggaaa 120  
 tgttcctgat gcaccattgg acaacatctc tttccactcc attggcaatg ttgaaaagtg 180  
 gaaatatgtg tatcaacgca tacttgcggt tgaagagaa ctgtgaagag atgccttgga 240  
 ttgcaaggag atcatggacc tcatcaaggc tgctggactg ctgaagactg tcagcaagtt 300  
 gggaga 306

<210> 9177  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 9177

agcttggat attttgctcc gcaaataa tggtgagact agcacttggc tagaaggaat 60  
 ttacaaaatg aaagaaaaat gggctagttg ctatatgaaa gatgcttata gtataagaat 120  
 gcaaagtact caacttagtg aaagtttcaa tgctagtgtg aaagattatg ttagatcaag 180  
 cttggatata atgcaaattt tcaaacattt tgagcgagct gtggatggca agcaatacaa 240  
 tgaattagag gctgaatata atagcaggaa aaaacttcat cggctaagga tagaacactc 300  
 accattatta aagcagggtta ggcaactcta cactccaaaa atattaaatt tgttcc 356

<210> 9178  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 9178

tccgttatcc aatttctagc gtctcgatat attatattac cgaatcagac atccgagtga 60  
 aatgttatga ccattcgaat tcgtcgagag cttcttttgt tcaatttcga gcgtctagat 120  
 gagttatgtc accgaatcgg acatctgtat gaagagttat gaccattcca atttctcgac 180  
 agcttccgtt gttcaatttc aagcgtctcg atatattatg tccccgaatc tgacttcctt 240  
 gtgaaaagat tggaccattc aaatttctcg acagcttccg ttgttcaatt tctagcgtct 300  
 cgatatagtt atgtccccga atcggacatt tgtg 334

<210> 9179  
 <211> 340  
 <212> DNA



<213> Glycine max

<400> 9179

agcttcatgc agataagatt ttattgcttt tagccacaaa ttttattata aatagcaaca 60  
gttctctgat gcaatataca tgattattta acttgggtcta atgataaatt gtattaatta 120  
tgtctctaaa gtatgaaaat aaagctcatt cagtagccaa tccacagctc cacacaagtt 180  
catgacaacc ctttcaaage ttcaacttga tagcagtttg aacatcctta tcacctcggc 240  
cactgaagtt aaccacaacc ttggcttcct taggaagggg tggacacact ttctctagat 300  
atgccaatgc atgaaatggt tccagagctg gaattatgcc 340

<210> 9180

<211> 495

<212> DNA

<213> Glycine max

<400> 9180

agcttgcttc tacagccata gccaaagatgc atcaatgtag caaactttaa gacattttgc 60  
aacatcattt tggatattca acaagaacat cctattttctt ggcattggta ccttgggtgat 120  
tagattgttt ctcccatctc cgatggaaat actggaatct ttcaagtga tatcatagac 180  
ttttttgagt aattttccga aactcaaaat atagtcttc atatttagga cgtagtatac 240  
atttgatatg aatttatgtc ttccatcctt caaacgaatc aagatcttac cttttccttt 300  
tacaggaatc ttggaattat caccaaata gacattgaca cttattgatt catcaagatc 360  
tatgaacatg cttttttttt cttcacatat gggtgcttgc accagtgtca aggtaccatg 420  
tgttttcttg gctaccttca ttacctccac gtgctaggag cactgtttca aactttctcat 480  
ctttttgctc cacat 495

<210> 9181

<211> 674

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9181

cttgctaccg cctgaacaat tagacactga ctcacatagc ataatctgat aacacatcag 60  
acacatcttt taatatttgt atttatttac atctaataa aattattagg agtcttgatt 120

tgttttaaga catagatgta tttttgattt aacaccattt ctataacctt aaaacttcta 180  
 cacattgatt tgtttgatcc aactagaaca acctttgtta gtgttaaaaag atatggactt 240  
 cttgttgatg atgattacac tagatggaca tgagttatgt tcttaactca caatgatgag 300  
 tcactaaaga tcttctataa cttttgtaaa catgttcaaa atgaaaaaag gagtatgtat 360  
 tacttcaatg gaaagtgacc atgaatgaga gtttgaaaat aaaatttttc ataggtgttg 420  
 taatgagaat ggaattttcc ccaacttgtc tacaccatga aactacaac aagatgatgt 480  
 agttgagaaa aagaacatgt cattgaaaga aatgactaga accatattaa atgattacta 540  
 atctcttcaa cactnttggg atgaggcagn gaatattgct tgttatattt gcatccaata 600  
 ggaacttcat ccaaaggact tattgtccaa tggaaattat gtccatttgc attgcatttt 660  
 tgtgctttca tatg 674

<210> 9182  
 <211> 603  
 <212> DNA  
 <213> Glycine max

<400> 9182

agcttgctaa cccatggaag ttcctaatat cttccacact ttttggggtg ggccattctt 60  
 ggatggcctt gattttctca ggggtccactt ggacctcatt tctaccaact acaaacccta 120  
 agaaaactat attatctaca ctaaaagtac acttctctat atttgcatag aggggtgtttt 180  
 tcctaagaac tgaaagaact tgcctgttgt ttagccttcc atagtcatca caaatagaag 240  
 aacaaaaaaa attgcacaag agagagaaga acagagttga agagatgaat acatacaaag 300  
 aacaagtaag agaaaaagag agagaagagt ttgatctaaa acttgacta gaagtttcta 360  
 aaaatgggtt ttttttacia aaatgacttt aactaactaa ctaactaact aactctgaaa 420  
 atatactaag tagaaaaata tatactctaa ctaagaagaa gtaatgggtg ggccctaatt 480  
 aagcccaactt aatctctcca ataagctaata tacagaatgc aacgtcccaa aattcgcagc 540  
 ccaaaatcca agtgcagagg ctctaacttt caagctcaaa atgaccctca aaacagcata 600  
 att 603

<210> 9183  
 <211> 641

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9183

ncaacaacag gtgctcgggtg acgttctaata agtctcatat aagagttttt tctgattgct 60  
 tttctaagaa caccacaat agactatcct ttatctgaag ttatcctttt gattgatcat 120  
 tcttaccaca aaaacaaaca tacaccccaa tgcataagaa cccccacgta atagtacaaa 180  
 aagtaaacga acacaacctt acctccgcaa gatgaataat gcatatgtat cttgattagt 240  
 atcaatttat aatagctttg tgtgtgtgtt gatatatatt aactattata aaatcaatat 300  
 atttatctta aaattattac attattaatg cataacctat ttttttatat taaataatag 360  
 aatagatact ttttttatag gaatagaata tatatactaa taagttatta gtatgagaat 420  
 accatacaca atctctttaa gcaaagtctg tgaataaaaa aacataatta aataaaaatt 480  
 ccattacaaa tgatcaacca agttctctct gataaaaact aatcaacagt gagtactccc 540  
 taaaaataat atgactatca aaaaaataa aataacaacc gactgtacta tgtttcaaga 600  
 ctaaattcgt taactactct gttatggaat tttataattc a 641

<210> 9184  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <400> 9184

agcttggagt ggtgaaccac ctgattatth ttgttttata gtgtttggat cactggcctt 60  
 tgctcatggt aaacaaggaa agttggatgc aagggtctga aagtgtgtgc tcattggcta 120  
 tcctgaagga gttaaagggt acaagctatg gaaattggaa cctggtgaga caagatgcat 180  
 catcagcagg gatgtaacct ttgatgagag cagaatggca ttgctaatta aggagcagaa 240  
 agataacaac ttaagtagtg agaataccaa ttttgagggt gagcattctg agaagctgga 300  
 gataatgaag agctgggttac taagcatgac ttgcccaatt atcaattggc tagagataga 360  
 gaaaaaaggg tgataaagcc ttcaaagaag tatggatcatg ttgatattat atgctatgcc 420  
 ctgagtgttg atgaagagat tcaaaattca caaacatag acctggaggg aagtaattga 480

<210> 9185

<211> 499  
 <212> DNA  
 <213> Glycine max

<400> 9185

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agcttggtaca ggcgtaggca atcaattcat gatatttcga ataagatttg aggggtggagg 60
atagacaaac agtgcttggc aatcaattcg tggggctacg gataagattt taggggtggag 120
gaagcatgaa tagcgctagg tgtcataccc taatttcgtc cggggacctt tgcttgatga 180
catgcgacct ttgtttggtc cctgtaaggt gcttggcacc catcattagg caatttgtga 240
aattccagga catgccgaaa aacaaaagaa aatattgatg cacaatccgt aagggtccgt 300
gacacaccga aaatcaaag gaagcatcgt tgcataatta gtgaggttcc gtaacattcc 360
gtaagtcaaa aaggggatga ttatgtaatc cgcaaggttc tgtaacatta cggaagaaaa 420
acaagtatcc gtaccaaagt tcgaagtttc cgtaacttta cgaaaaaaaa gagtcacaaa 480
aaaaaaagca gaggggggtg 499
```

<210> 9186  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<400> 9186

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agcttgctat cccctccaag aaaaggaaa aattttcctc atccgattct gatgatgatg 60
tcgaactaga tgtctcgaca tctaagaggg ccaagaaatc tggaagaaa gtgcctggaa 120
atgttcctga tgcaccattg gacaacatct ctttcactc cattggcaat gttgaaaagt 180
ggaaaatatgt gtatcaacgc agacttgccg ttgaaagaga actgggaaga gatgccttgg 240
attgcaagga gatcatggac ctcatcaagg ctgctggact gctgaagact gtcagcaagt 300
tgggagattg ctatgaaggc ttagtcaggg aattcattgt caacattcct tctgacataa 360
ctaacagaaa aagtgatgat tatcaaagag tgtttgcag aggaaaatgt gttagattct 420
cccctgctgt gatcaacaaa tatctgggca gacctactga tggagtgata gatattgatg 480
tttttgagca tcaaat 496
```

<210> 9187  
 <211> 640  
 <212> DNA

<213> Glycine max

<400> 9187

gcaagcttat tgataattag ccatacaaat atgaatctca atagcacaga agcacttctt 60  
gtgctttttg catttgtctt cttggcatgg ggcaatgcac aaaataccct tgtgccagca 120  
ataataacat ttggtgactc ggctgtggat gttgggaaca atgattatct gectaccctt 180  
ttcaaggcta actaccctcc ttatggaagg gactttatca accatcaacc cactgggagg 240  
ttctgcaatg ggaaactagc tactgatatt actggtgagg aaatatcatc aaaattgcaa 300  
cttacttagc atggatagaa atagtgcaca tatattatct tcattcttgt tgaaataatg 360  
tttccttttg cagctgaaac actgggtttt aagagttatg cacctgcgta ccttaaccct 420  
caggcatcat ggaataatct ttttattgca gcaaactatg cttcagctgc ctctggttat 480  
gatgaaaagg ctgctattct gaatgtaaag ttggaataaa cagtgcacac acatgcaaac 540  
tcctcttgga gaactaatca ttattttaac tgtgtttttt tgcagcatgc gattccattg 600  
gtcccacagt taaaatatta caaggaatac tgaggcaagc 640

<210> 9188

<211> 492

<212> DNA

<213> Glycine max

<400> 9188

gcaagcttat cctgtggccg ccaaagcctt ctgtttttct gttatagcct attataatcg 60  
agtagatggg ccttgttcta tggtaatcga ttacaggag tagtaatcga ttaccagatc 120  
ctaaaatatg gtatttcaag tgaaataatc acgaaaatca attatttgtc acccgcaaaa 180  
ctacacattt attataaata atcaaaatag acaatcgtga acaatcatca taaacaatca 240  
aaatagacaa tcatcataaa taatcatgaa caataattag caaacacaag cacttcactc 300  
aacaataaat taatcaatca tgaaagataa ctatcaaaca caatcatttt tcttaataca 360  
aggaaacaat catcataaac aagcataatt aacagccatt aaagccaatt tattataaac 420  
aatcaaaatt gttacgaatc taagtatttt atgtctatga gtcttagtgc tcttctaata 480  
tcaaagaaat tt 492

<210> 9189

<211> 529  
 <212> DNA  
 <213> Glycine max

<400> 9189

tgaacccatc tttgtatagg tgaaccctct taactctatt ttccaaaatt ctagttcaat 60  
 tgcatttaac acaaggacat atgatccccc atcattgtgt gataacaatt ttgttgacta 120  
 gctttgcaaa caaattcttc aaccccctta acaaaagact ctttcaaaca acttctacca 180  
 ctataacatc tatcgtacat ccaacaatga ttcaaaagaa tatagctcat attttgtata 240  
 ttttaagaaga aaaaatatga acattcatga atcacatata taatcttaaa gtgatctcta 300  
 ttattagtcg caacaattat gatcatgttt taggtgaaaa aaatcacata catatggttt 360  
 ttgtctttct aaatgaacaa agcatggaat gtaaataata taaccacaat cacaaatata 420  
 cttaacacat ttagaataca aaatttcgaa caactaaaat aaaaaaacca caactaactt 480  
 gaacaatgga atgtacaacg atcacgtaat acaatctcac ctataaact 529

<210> 9190  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9190

gcaagcttng acagcgctag gcaatgaatg catgagactc cttttaagat tcgagggcg 60  
 aggatagaca aacagtgcct ggcaatcaat tcgtggggct acggataaga ttttaggggtg 120  
 gaggaagcat gaatagcgt aggtgtcata ccctaatttc gtccggggac ctttgcttga 180  
 tgacatgcga cctttgtttg gtccctgtaa ggtgcttggc acccatcatt aagcaatttg 240  
 tgaaattcca ggacatgccg aaaaacaaaa aaaaatattg atgcacaatc cgtaagggttc 300  
 cgtgacacac cgaaaatcaa atggaagcat cgttgcataa ttagtgaggt tccgtaacat 360  
 tccgtaagtc acaaagggga tg 382

<210> 9191  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 9191

agcttcacta ctagaaaatg aacttttaac attttctatt ttttactttc aacatcggtt 60  
tttaaccgat gttgaaacca cgcacgttaa tattatcaac gttaacatcg gttttcaaaa 120  
aaccgatggt aacttgcact acacgacatc ggttattttac aaaaactaat gtcataataat 180  
aagaaatata aaaaaaaaaag caaaaactaa aaaaacaaca tcgttttttg ttaaaaccga 240  
tgttgaatta tgtattttta agtggtttct acattgggtt ttttagaacc gatgcagaaa 300  
gtgtctttac aacatcgatt ttaggcaaaa accgatgtaa aaagtgtctt taagacacac 360  
tttttatatc gggtatggcc taaaaccaat gttgctttta aggaactttc tacatcggnt 420  
ttagaacaac cgatgttggt ttttgcaata aaaaatgat attttatttg tttttacaat 480  
gaaccaacca aaacctttca tgattttctc caaagagaat tctttattca ttagttaagc 540  
atagaaaaag atagaattgt gagt 564

<210> 9192

<211> 590

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9192

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atcgagacgc tcgaaattga atggtgaacc tctgagccaa ttcaaacgac aatatacttt 120  
ttcacggatg tctgattgag tcccgtaca tattgagacg ctcgaaattg aatgttgaac 180  
ctctgagcaa attcaaata caataacttt ttactcggat gtctgattga gtcccgtaac 240  
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aatacaaacg accataactt 300  
tttactcgga tgtctgattg agtcccgtaa catatcgaga cgcttgaaat tgaaagttga 360  
agctctgagc caattcaaac gaccataact ttttactcgg atgtctgatt gagtcccgta 420  
acatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatacaaa cgaccataac 480  
ttntttctcg gatgtctgat tgagtccctt aacatatcga gacgctcgaa aatgaatggt 540  
gaagctctga gccaaactcaa acgacaataa ctttttactc ggatgtctga 590

<210> 9193

<211> 528

<212> DNA  
<213> Glycine max

<400> 9193

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aaaaaagtta ttgtcgtttg agttggtca aagcttcaac attcaatttc gaccgtctcg 120  
atatgttaag ggactcaatc agacatccga gtaaaaagtt atggtccttt gtattggctc 180  
agagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagatattcg 240  
agaaaaaagt tatcgtcgtt tgagttggct cagagcttca acattcaatt tcgagcgtct 300  
cgatatgtta cgggactcaa tcagacatcc gagtaaaaag ttatggtcct ttgtattggc 360  
tcagagcttc aacattcaat ttcgagcgtc tcgatatgtt acgggactca atcagacatc 420  
cgagaagaaa gatatcggcg tttagattgg ctacagagatt caacattcaa tttcgagcgt 480  
ctcgatatat tacgggactc aatcagacat ccgagtcaaa agttattg 528

<210> 9194  
<211> 560  
<212> DNA  
<213> Glycine max

<400> 9194

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acaatagcat catttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaga 120  
ttcctagcct caacaagagt catatcacta agagctccac cactggcagc atcaatcata 180  
ctcctctcca tgttgctaag tccctcatag aaatattgcy gaaggagttg ctccgaaatc 240  
tggtagttag gacagctttc acacaatttc ttgaatcttt ccagttactc atacaagatc 300  
tctocactaa gtttcttgat gcctgaaatg tcttttctga tggcagtggt cctagatgca 360  
gggaagaatt tatccaagaa caccttctta aggtcatccc agctggtaat ggacttgtga 420  
gcaaggtagt acagccaatc cttcgccact ccctctagag aatgaggaaa agcctttaga 480  
aagatatgat cttcttggac atcaaaggat ttcatggtgg aacagacaat atggaactcc 540  
ttaagatgct tatgaggatc 560

<210> 9195  
<211> 629



<212> DNA  
 <213> Glycine max  
 <400> 9195

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 ttctctatc tttttgtttg gtcaattcac ttttaattcct tgttcttcat cttcttctcc 120  
 atgtatctcc tcaattttct tgtagtttgg tgttgtttag tgtagatcaa aaaaaataaa 180  
 ccgattaaat cttagatcta cacttgctct tgcatttcta tggttcaaat tttatagata 240  
 aactcttgaa tcatgttttt gtgttgattt taggttctat ctttttttag tcataatatt 300  
 cttgttttga accttttagat ctcaattttc ttgcaaaata ttgattagaa aagaaaacaa 360  
 aaaaatccaa gtgtaaatca cttcattcat gttgtcttag agtcatgttt agtcataata 420  
 attgtcacat tatgttctaa gtttgaattc aattttgatt ttgttgattg aattataaat 480  
 acatttgttc atgtattctt gcaattctta ccctatcatt taaatttgag tctaattcat 540  
 gcatggtatt tagttcataa catgttctaa atcaattcct agaagtagtc ttgttggtga 600  
 actttttttt ggtttctaaa gttcctata 629

<210> 9196  
 <211> 605  
 <212> DNA  
 <213> Glycine max  
 <400> 9196

tgccccaccc gttatcactg agcattctac atttgactaa tcttatagta ccaagattct 60  
 ctagaaatcc aatgcgattt ggcaattccc tgatatttcc attgaccatg ttcagtgtag 120  
 taagaaatgc taggtctcca gtagattcta gtaaattatc aagatttatg caattcatta 180  
 tctcaatttt cctcaataat ttcggctctc caatctcatt tggcaaattt gtgatggttg 240  
 ttccatctaa ctgaattcaa tgttttaatt gaattttcca atttgctgat ccaactgata 300  
 actccctcag gtaatatataa gaaccaatga tagaaggag ttttttaatt gtggtgctat 360  
 ttaaaaaaag ttgtgccccat gatatgagat tgcttataga atcaagaatt acaatgagag 420  
 attcacacca catcaaattg agtctcttaa aggggtattca atgatcccat taagacagtt 480  
 aattcttgca atgaacatag atgtcctgta gaactaggta ccctctcac atattggcaa 540  
 ctttctaaaa caaagagctt caagttttgt gatgcgaaaa aaatgactgt gggcactcta 600

ctgct

605

<210> 9197  
<211> 628  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9197

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cagcaataga tacaacctcg gatgggtggaa tcaccctaac ctcagatggg ccagccctca 120  
gcaacaacaa cagcagcctg ctcttctctt ccgaaatgct gctggcccaa gcagaccata 180  
cattcctcca ccaatccaac aacagcaaca accccagaaa caaccaacag ttgaggcccc 240  
tccacaacct tccctcaaag aacttgtgag gcaaatgact atgcagaaca tgcaatttca 300  
gcaagagacc agagcctcca ttcagagctt aaccaatcag atgggacaat tagctaccca 360  
attgaatcaa caacagtccc agaattctga caagctgect tctcaagctg tccaaaatcc 420  
caaaaatgtc agtgccatth cattgaggtc gggaaagcag tgtcaaggac ctcaaccctg 480  
agcaccttcc tcattctgaa atgaacctgc caaacttcac tctattccag aanaaggtga 540  
tgacaaaaat ctacctaacg atttctgtgc aggtgaatct tcttccacag ggtaattctg 600  
atttgcagaa gcagcacatt cccccctc 628

<210> 9198  
<211> 540  
<212> DNA  
<213> Glycine max  
  
<400> 9198

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gaccttttaa cccaaactcg ggaaatctct ccagctccac ctatgttgct tataagcacc 120  
aattcgaaat acactctccc attgatggta aatctgatgc ctccacttct tttgcaccca 180  
actctgcata atataaatgt tactagctag cctaattggt tttaaaccac atgtatcctt 240  
tacgagaaac aaaaaaaaaa gtttatgaca tatggcaatt gacataacat aaagatactt 300  
acttgctgta caaaattggg acaatgccag ctttgtactt ggctattgtc tgaaaggcag 360

gttgagacat gtcaaagtgt ggtctaggag gattacacca gccaccattg tcattatgga 420  
 gcgcgaagtt tggtaggcac acaattgtgg catgtacaac aatggaagtg cccctgatgc 480  
 accattgtag cacttgctt gcgtcacaaa ctatcctata gcaaccacca catgaatttc 540

<210> 9199  
 <211> 298  
 <212> DNA  
 <213> Glycine max  
 <400> 9199

acatactgaa tcgataccat agttattttc aaaaatattc ctaacagtcc catctttttg 60  
 tgtggctctt gaatggctat caaaaggcct atatatatgt gacttgagac acccaatttt 120  
 acaagagttt ttcagaacaa aaaagcctta tgctcttaca aagaaaaata attttatccc 180  
 tcttacaat tccttggcca aaactcttgt gattcataag gaatcatttg agtgetcaaa 240  
 ttggttaatc tatcttttta tagagagatt tcttcttctc ttcttcttca ttctgaaa 298

<210> 9200  
 <211> 604  
 <212> DNA  
 <213> Glycine max  
 <400> 9200

agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttcacccaac gaagacactg acaaaaaactt atcttctcct ttttggacaa agtatggcaa 120  
 gctgggggca agtaaatattt cttcccatca gaccttggat gcaactgtga ttgaatcccc 180  
 atatcagcta gatcttgacg ggtattcaag ccatecttcg tcttgccttg aatgttaagg 240  
 agcgtcccaa tgacactatc ccatacattt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcta gatcagatca gtacggaaga tcaaagaaaa tgaacctctt cttccatatg 360  
 caattggtac ttttatcctt cttttgggtc ttccaaatac agtattgagg tgttgaaccc 420  
 gctcatatac ctgttcacca gtcaatggta ttggcgcaac attgtgctct tgactttcat 480  
 taaaagctct tttcagtcgt ctggaaggat gattgggggtg tataaaacga ccatgcctaa 540  
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 ggca 604

<210> 9201  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 9201

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 gttaaaatgg tcataagttt tcacactgat gtccgattca ggcttatatt atactcgagac 180  
 gctcaaaatt gaacaacgaa agctcttgag aaattcaaatt ggtcataact ttttacactg 240  
 agggccgatt cagggttata atatatcaag tcgctcgaaa ttaaacatcg gaagctctcg 300  
 agaaattcaa atggtcataa cttttcacac ggatgtccga ttcgggcgca tattatgtcg 360  
 agaggctcga aactcaacaa ccgaagctat cgagaaattc aaatggatcat aactttttcac 420  
 accgatgtcc gattcaggcg cataatatgt cgagatgct 459

<210> 9202  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 9202

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 gatttgctcg gatggctgat tgagtccttg tatacatcga gacgctcgaa attgaatggc 180  
 gaagctctca gctaattcaa acgacaataa ctttttactc ggatgtctga atgagtcgcc 240  
 gtatacatcg agacgctcaa aattgaatgt tgaagctctc agcagattca aacgaccata 300  
 acttttttcc tcggatgtct gattgagacc cgtaatatat cgagacgatc gaaattgaat 360  
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 cc 422

<210> 9203  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 9203

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aattgctacc tgcagttcat tagtgctgc aacaaccctc atggtgtaaa agtaggcgcc 120  
aaaaacaaat gctatcaaac cctgaacgac taccaaattc tttggcttaa gaggaaggct 180  
tctatacacc ataattctag cctgcttgat caatagggga agaagggcta gcacattctt 240  
taacatttac agttaccctc tgtggaggca agggctttaa gcacaatata taatgagatc 300  
ccttt 305

<210> 9204

<211> 575

<212> DNA

<213> Glycine max

<400> 9204

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aggcaccaaa gacaaaagct atcaaacccc caacaactac caaattcttt gccttaggtg 180  
gaaggctcct atatcccaa attctagcca tcttgatcaa taggggaaga agggtagca 240  
caatttcaca caattacaat taccctttgt tgatgcaagt gcaaaaagca caaaagataa 300  
aaagataaat aattctaaat tgtgataatg aggagagtga aagaaagtaa aaggtagaca 360  
tttccacaaa cagaataagg gcaaggcagc cccaacacaa ttgaaagagg agtaaaatga 420  
aacgtagaga ggtgggtcaa ttatttcac aaacaaaaac agttttgatg ggtattactc 480  
atattgctac aaagaaaacc tttcaattaa gtttctatga tgaaccagac agcattcaca 540  
aaatcaaaat ttttagaaat gatgacttaa tatga 575

<210> 9205

<211> 521

<212> DNA

<213> Glycine max

<400> 9205

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gtggagatta ctgtatcct aggatgaaga ttaattctct agaatgctcc acacattcta 180  
ggagtctcta cactctttta ttccctttca tactcttcca taaggttcca gcccacacat 240  
ctccagaata ttccagaggt ttccacatcc ttccataagc ttctagagag ttctacacta 300  
ctctagagtt ctccaggatg ttctagaaaa ttctacactt ttctagagag ctctacaatt 360  
ttctagaacc tctccgattt gttatttaat ttgatattta tttattttatt tgagatgttt 420  
ctttgctatc ttaagtattg ttttcaattg aacttattta acaaatacat aattttaatt 480  
caattacgtc tatatgatac ttttttatat tttatttacc a 521

<210> 9206

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9206

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ctctctcaaa ctcgagtcag tgtatgagag ggaattgatg gcgggtggtg tagcagtga 180  
aaaatggagg cactatctgt tgggtaagaa atttataatt agaactgatc aaaggagttt 240  
gaagttctta aatgagcaga ggcttatgag tgaggaacag ttcaagtggg ctactaaatt 300  
gattgggtat gattttgata ttcagtatag gccaggaaag gagaataaag tggctgatgc 360  
actatccacg cagttntcat tttcagcaat ttcaatggtg caagaggagg aatcagctga 420  
ttggggaggaa gaaatacaag caaacctcc attatatgaa atatatcaag ggattctgac 480  
taaaac 486

<210> 9207

<211> 571

<212> DNA

<213> Glycine max

<400> 9207

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gaatgtatgt atacatgatt ttgatgatgt caaaagagga atcaaacaaa gttgcttcaa 120  
aagataagca tggcttcaag attaatacaa gattgcttca acaaacaaag ccttgcttca 180

agattaactc aagatcaagc cttgccttaa agcaaagtgc tttcaagaca ttcaaggctt 240  
 tggtaatcga ttaccggaag atagggttga gaaatagttg ttgaaaagag ttttgaattt 300  
 gaattttcaa catgtaatcg attaccatat gtctgtaatc gattaccagc aacgaaactc 360  
 ttgaaattca aattcaaaag tcatgaccct tcaaattata actgtgtaat cgattacaca 420  
 aacattgtaa tcgattacca gtgaagagtt tttagaaaat atgccaacag tcaaattctt 480  
 tctttggatt tgtgaatggc catcaaaggc tataaatagg tgacttggga ccaattttat 540  
 gagagagttt tgattgatca aaatgtctta t 571

<210> 9208  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<400> 9208  
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 tactagctat cattcttact tcttatctag catgcatgct catgttggcc accaccctca 120  
 gcttcccatg catgggactg gcatccaatt tcaaggaaat tatcttattg gatcttttta 180  
 tgtggttccc actggaagat acaatctagc cttattttca tccacttgaa ttaaaaaaaaa 240  
 gaagaagatc ggtgtattaa ttaaatcaat aaaaagattg gtatccact ttttttagct 300  
 ttattttaca ttaactttga tatttagtag gtgaggtaga aaagattaaa ggaaaaatga 360  
 gtttttgatg gttttaattg gtgagagaaa attaccaatg aaacagattt tgtttatttt 420  
 tagaaaaaat agaaaagctc acttatcttt gttaaactcat gattctcaga ataaacataa 480  
 taaaattatg tataattaaa cattatttat atcaatgagg tcccctcact ggttttggtc 540  
 aaaccaatta gtatcctatg ctttttaa 567

<210> 9209  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<400> 9209  
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 gtacttaacc gttgatggac ttcgtccatg ataagttgga atgttcctcg tgataccttt 120

ttatgaaaaa taggtaccct aaggtatddd ccaaggatcat cagtacactg attaccatt 180  
 tctctgcttg attaccatc tctctgctcg attgattcct atgtgacact caaacatttt 240  
 tagagaaatg catacgagat ttctctaagc taatcttctg accagaactc ttgcaaaata 300  
 aatttaaaat attatgaatc aagtggactt attctagaga agcttccgca tacaaaagca 360  
 agtcactcgc aaaggatcaag tgcgatcagg aacaaaacta gactacaaca atattatctc 420  
 cactttgttg atcaggaaca aaactatggt gacaaggctt aatccaatga gtca 474

<210> 9210  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 9210

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 ccttttttgg agccacatga atgctattgc ttaaagctgt tcatgtgtcc ttcatTTTTcg 180  
 cgtttggagc tgtgttccat gattgcctaa acgaggaccc tcaaggcaat cctctattgt 240  
 cacccttttc cggagccaca tgaatgtaat tgcttaaggc tgctcatgtg tcctacattt 300  
 tcaagggtggg agctgtgtac catgattgcc taagagaaga cc 342

<210> 9211  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9211

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 ctaacctcaa caggggtcat atcaccaagg gcttcaccac taatgaaggc cgcttgca 120  
 caatttcttg aatcttttcc cgtacctata caaactttct tcaactaagt gctgatgcc 180  
 tgaaatgtct tttctgatgg cagtggacct agatgcacgg aagaatttct ccaagaacac 240  
 cctcttaagg tcatcccagc taaaaatgga cctgngagca aggtagtata gccaatcttt 300  
 tgccactccc tccagagaat gaggaaaagc cttttaaaag acatgatcct ctttgacgtc 360



aggaggcttc atggggggac aaacaatatg gaact

395

<210> 9212

<211> 499

<212> DNA

<213> Glycine max

<400> 9212

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ggaagaacag acaagggcct tcagatcaag aggaaggaaa atcccaagag agaggatgat 120

gcaatcctac cccgcaaggg cattgaatag aagactccaa gtagattgga ccagagatgt 180

aagagaaggc cctaggattc tcatgagcct tagggtagat tttgggccc tgggctaagt 240

ataagcccac ttatctttgt acatattaga ttaagggttc attattttgg acctttttatt 300

tagggttcca taatgtaggt agagtaccct agaaatgtag gatttttccag cccttgatt 360

ttacggtacc tagactaatt tttgtattag gggtagtttt ataatttcac atgcattaag 420

tgaatatttg atgtgtgtgt tggaaaataa attgaattga attgggagaa gcctaattca 480

attaaagttt agaggggga 499

<210> 9213

<211> 467

<212> DNA

<213> Glycine max

<400> 9213

caattacgag cgtctcgata tcctacggga cacttttctg acatctgagt caaaagttat 60

tgttgtttga atttgctcag agcttcagtt ttcaattacg agcgtctcca tatattacgg 120

gactcaatcg aacatccgag ttaaaaagtt ttgtagtttg acttttctta gagcttccgt 180

tttcaatttc aagcgtctcg atatattaca gggctcaata ggacatccga gttaaaaagtt 240

attgtcgttt gacttttctt agagcttccg ttttcaattt caagcgtctc gatatattac 300

agggcgcaat cggacatcca agttaaaagt tattgtcggt tgacttttct tagagctttc 360

gttttcaatt acgagcgtct cgatatccta tgggacacaa tcggacatcc gattcagaag 420

ttattgtcgt ttgaattggc tcaaagcttc tattttcaat taccagc 467

<210> 9214

<211> 490  
 <212> DNA  
 <213> Glycine max  
 <400> 9214

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 gtatctcgag acgctagaaa ttcaaaacag aagctattag aaaaatcaaa cgacgataac 120  
 tttttacacg gatgtcccat tgagtccecat aatatatcga gacactcgaa attgaaaaca 180  
 gaagcactta gcaaattcaa acgagaataa gttttgactc ggatgtccga ttgtgtcccg 240  
 tagtatatgg agacgctcga attgaaaaca gaaactgtga gcaatttcaa acgacaataa 300  
 ctttatactc ggatgtccga ttgagtcgcg taatatatcg agtcgctcgt aaatgaaaaa 360  
 agaagctttg aggaatatca aacgacaata acttttgact cggatgtccg attgtgtccc 420  
 gtagtatttc gagaagctct aaattcaaaa cagaggcttt atgaaaaatt tatggcgata 480  
 tcttttttca 490

<210> 9215  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 9215  
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 gcataggcca agatgtggaa cttagagccg atggactcat ggcagtcattg tcaagtccac 120  
 tagctgaata tgattgtgct gatggcatag acgagccagt ggaagcatat acagggcgca 180  
 actcttgagg tttgtgggca gagaatctga cttttataac gcagccactc tcacgttgc 240  
 aaatgcttgt acggtagtgg gcaggatagc aatctggact taaaaacacc atgagcattc 300  
 tcacaggaa 309

<210> 9216  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 9216  
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atttgcaaaa gccttgcttt attgccattg gatctccttt ccttaggact gtcttaaaga 120  
 tacatattga acctgagcta ctgcataagg attctgtcct taaagtggaa agcagacaag 180  
 atcttatttt ctataagggg gggaaactag ttcttagtaa tagtgctctg gctaaattca 240  
 tcagtgggta caagaaatat gggaggattg gtgaactttc aaaactttta cttagtattc 300  
 aaggggaact aaattcagtg gcagggtcca gtttgtgttc tgatgtaatt ggtgcttgta 360  
 ttcagtta 368

<210> 9217  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <400> 9217

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 ttataataat acttggcaag ctcaagattt ggatgcttat ggtagaagaa gtctgagatg 120  
 ggtgcaaaaa tattacatga tttatagcta ctgcaaagat tacaagcgat ttcctcaggy 180  
 tcgacctcgt gaatgcaggc tttctagatt ctcttagtgc gggataagta aatttaaaat 240  
 taatttgatg attttttcat ttgtgtgtat ttaaaattcc actcgaatac ggctgaattt 300  
 gagcaagatc aatttgattt tacttttgct tgcttgaacc gataatttca tctcttgta 360  
 tttacctatt tctcctactc tttctaaaca atgtaaaatt attaaaaac 408

<210> 9218  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9218

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 caattcatca gtgggctctc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
 gacagctttc caggttctgc tatccagcga tttgaggaag gccaccattc ttgctttcca 180  
 gtattcatag ttgcttccat caagaattgg tgggtctgat cctgatnnta cttctttctc 240  
 ca 242

<210> 9219  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<400> 9219

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tggaactaaa ctttttttct ctaccacttg ctatccacaa actgatgggc aaacagaggt   60
agtgaataag tcttttatcca cctttttaag gctcttctga aaggcaacca taagtcttgg  120
gatgactatc ttcctcatgt agaatctgcc tacaacaggg ggggttcatt gaaccaccaa  180
gcattccccct tttgaagttg tctatgggtt caatccccta acatcgctag acctcattcc  240
cctcccactg gacacttctt ttatacataa agaaggggaa tcttggtgag agtttgtaaa  300
gaagttgcat gagaggggta agaaccacat agagaaccaa acaaacgtgt tttcaactaa  360
aggcaacaga ggaagaaaaa aactatttct taatgagggt gactgggttt ggctccatct  420
tacgaaggat agattcccta ctaaaaggaa atccaagctt agccctagag gggatggacc  480
ttt                                                                    483
  
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<210> 9220  
 <211> 630  
 <212> DNA  
 <213> Glycine max

<400> 9220

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aaaatgttaa taaaaagtat tattaaataa gaagtaacta ttatataata taaaatacat  120
taaaagttta ttaactataa atactgtgtc catctttata tataggaccc tttcaactaa  180
tttcaaccct taaataatta gttaatttag tcaatggtat taaatttatc aataatttgt  240
gttggttttc caaaattaac cttattatct taaaattaat tatgtcctct tttcacttaa  300
ttgtttctca tctagttact actctagggt cttctcgaat cctaataata aagaaaataa  360
gtttatctca ttgtactcat ccccttctaa aatggctgac gtttaagatt ttttcacaca  420
aaataagaac aacaataaat aagttaggga tcaaaataat tctactaaaa tatatttcat  480
ctcattgctt taatttatga ggtgataaat ggtggtagtt gaaaaattgt aggacaggca  540
ttaaattcat gtatttatta agggctaaat tgaaataaaa attttgatat ctcaattaaa  600
aataatagca ttaatctatt taattttttg                                     630
  
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<210> 9221  
 <211> 594  
 <212> DNA  
 <213> Glycine max

<400> 9221

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 atagcacaaa ccacataatc aaatttagcg attaaggagc gaatgatctt ttccaccaca 180  
 cgaacatctt ccatatcttc tcataaacac ttcatctggc tcacaatagc caacaccttg 240  
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 tcccatgctt ctttggatgt gggtagatctt gacaccaaca ctactagaag atgcatgac 420  
 tacatcggtc acaatcaatg ttctacaacg gtgcatgacc gtttttgatt ataatgatgt 480  
 tgaaacttaa aaatttcaac atcagtccat aagcgaacgt tgtagtaagc tgtttttttt 540  
 ctacatcggg gctatactaa tgactgatgt agaaacattg gttctgcttt ttga 594

<210> 9222  
 <211> 590  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9222

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 atatcttctc cataacactt catctggctc acaatagcca acaccttggg gccaaaatct 180  
 gagatagatt cggattcctt catatgtaat gattcaaact ctctacgtag agtttgtaag 240  
 cgcacctttt ttaccttctc aacaccttca agggagggtt tcaaaatctc ccatgcttct 300  
 ttggatgtgg ntacanttga caccaacact actagaagat gcatgatcta catcggtcac 360  
 caatcatgtt ctacaacggt gcatgaccgt ttttgattat aatgatgttg aaacttaaaa 420  
 atttcaacat cagtccataa gcgaacggtg taggaagctg ttttttttct aaatcggcgc 480

tataactaatg actgatgtaa aaacattggt tctgcctttt gagggccgat tttctacatc 540  
cgtttttaaat taagcaacga tgtggactct tattttctac ctcggtttta 590

<210> 9223  
<211> 192  
<212> DNA  
<213> Glycine max

<400> 9223

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agtggaaata tgtgtatcaa cgcatacttg cgggtgaaaa agaactggga agagatgccc 120  
tggattgcaa ggagatcatg gacctcatca aggcggctgg actgctgaag actgtcaaca 180  
aattgggaga ta 192

<210> 9224  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 9224

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tattttcaga ttgggaatgc ctctaacagc acctttgtca atgattttct tcatgcctct 120  
taagtgcaga tgtctaaatc tttgatgcca tattttgact tcattcttct tggagaatag 180  
acatgtggag gagtacctgg tttcttgagg tgtccatagg tagcagttgt cctttgatct 240  
gctgcccttc attagaactt cactcttctc atttgtcacc aagcattctg actttgtgaa 300  
gtttacattg aatccttcat cacacagctg actgatgctg atcaagtttg cagtcagtcc 360  
cttcaccagc agtactttgt ccagactagg aagtccatca tggactagct ttcccattcc 420  
agtgatctt 429

<210> 9225  
<211> 244  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9225

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tattgtcggtt tgacttttct tagagcatcc gcggttcaatt tcgagcgtct cgatatattg 120  
catggctcaa tcggacattc gagttaaag ttattctcgt ttgatttttc tcagagcttn 180  
cgttttccat tacaagcgtc tcgatatcct atggcacaca atccgacatt cgagtcataa 240  
gtta 244

<210> 9226  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9226

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ttctttgcag caatctggag tcaatgaaca acttgaagcc tatgctgcaa acatttataa 180  
tagaccttcg cagtagcaaa accaacaaca acagaataat tatgatcttt caaacaatag 240  
atacaatcca gggtggagga atcatccaaa tctgagatgg gcaaactctc cacaacaaca 300  
acagcctgtc ccttctcttc agaatgttgc tgggtccaagc agaccatatg ttcctcctnc 360  
aatacagcag cnacaacaac aacaaagaca acaagtaact 400

<210> 9227  
<211> 438  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9227

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gatggtactg cgggtgaacc acaagctgaa atttcttttg gtgaggtagc catggaaaag 120  
cagagacgtt ggaatgattt cgtaaacttc agaaagctat tgggaaatgc tggagaaaac 180  
acgaatgcca agcagatata aatttgaata aagaatgtag aggggcgtgt gaagcaacgg 240  
tcgaatttgc tttgtagtga acgtgctatt aatgttaagt gattcgtttg ggcaagttca 300  
gattgcagta gctgctataa ttcctctagc agacaaatgc ccagcttgcc tctcagttnt 360  
tcacactgat gtgcattcaa agcctttgtg aaaatatctg ctatttgttc ctcagtgtca 420

acatgcttca gtgtgatc

438

<210> 9228

<211> 429

<212> DNA

<213> Glycine max

<400> 9228

tcaaaggctt agacaatgga gtataagtgt ttaagaattt ttaaaacaaa tggaactact 60

ccttttaaga gctggactta tggaggagga aagaacaagc atagctaggt tccttagtgg 120

gcttaatatg gaagtgaggg acaaggttga actccttcca tatatggacc tagatgagct 180

agtccaactt tgtataagag tggagcaaca acttaaaaga aagtcttctt taaaatctta 240

aggctttcac tcttatccaa ggaaggacca agcccaagga attttgagg ctgcaccttg 300

aaaacccaag gaagataagg gtaagaccat agagaaatcc acccctaaga ctagttccca 360

agaaaggact agcaacataa aatgtttcat atgtcttggc agaagtcaca ttgtctctta 420

atgccccac 429

<210> 9229

<211> 398

<212> DNA

<213> Glycine max

<400> 9229

ttgtaagact taattcaccc actctcttaa gttattaagg tctcttgtcc aacacactca 60

acccccaaac acttttgtgc tgaagcaata aacactactt gttatttaca aaacagaatt 120

tatataagac caatcttaaa gaagactccc tatgaattat ggaagggaca taagcccaac 180

atctcttatt tccaccatt tggatgtcag tgtttcattc taaacaccaa agataacctt 240

ggaaagtttg actccaaatg tgattctgga atcttacttg gatactttga atcatccaag 300

ggatataaag tgtataactc tagaaccttg actatggaag agtccattca tgtgagaatt 360

aatgacaaca aacctgacac tacaatgtcg gagctaga 398

<210> 9230

<211> 442

<212> DNA

<213> Glycine max



<223> unsure at all n locations  
<400> 9230

tcagctaaga gaaggtatct cctttctgaa gaaactattg gtgtagcgt tttgacttct 60  
gcagnntgg atatcattca cacttaacca ttaattcaga gtattattat atcatgattc 120  
ttgactttct gtaatttggt gcacactact gctatttata ttatgtgtct gcgctcttga 180  
gactaaggaa tgttcactat agaattaata aatttaagtt ttatacaatc aaaacaatta 240  
ttttaaaata ttctaacatc taaaatatcg ttagttacaa atcttttaca tcttttataa 300  
atttaagaat tatcatttga gtttgctggt agaaaaatta gtgaacatgt atataagtag 360  
aattctataa attcaatact atagcattct taaagtggaa tattctctac atgattaaaa 420  
gctagtattc accaatttat at 442

<210> 9231  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9231

ntntggcaaa ggaagaagaa gaattatgag taggaatgta tttttaaata atcgtaaagg 60  
ttgtaaagggt taaaagggtt ctcaaagggt gttcaagaag ttgtttgaat gcaagtcaag 120  
gtcttgcttt tatagactct tcatgtctgg tccagaaaac cattggaaga gttataacct 180  
tgagaaaatc ttgagaaaac cattggaaga gttacatctc ttgacctttt attcaaaact 240  
tgtcactggt aatcgattac cataaccatc taatcgatta cacaatgcat tttatgaaaa 300  
gatgtgactc ttcacaattg aatttgaatt tcaacgttca gatacactag taaccgatta 360  
ccaatatatt gtaatcgatt acaccattta aaaattatctt ggaacattgc aaanttagtt 420  
taaagctttt tgaatcacat tttatc 446

<210> 9232  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9232

taaatgcatg tgaaggagaa ataaaagaag tggataactt attattatta tacgtactat 60  
 gatttgtgcc ttgatttcct gtgtagtcaa catcggtta ttgttggcat ctttgagtga 120  
 gataaggata tcaaggaaat cctctccatg aattttggac ccttcatccc attctttgat 180  
 tcgctgctca atgatgggat catgatactt gccacagtt tctatggcct tcttcacctt 240  
 gccctcatga ccctctaagt caagtccct caagcaaggg acatagtcag aaactctaaa 300  
 gtcataaatg tatntaagca ttgtgaaaat ggcataaga tgttccactt cctcactacc 360  
 aggccctcca tccttcttac cctccccaana gtacctccta ctannagtca atttcttcat 420  
 cacattgcaa caatagt 437

<210> 9233  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9233

ctcaagctnt gaatgctcta ttcaatggag ttgacaagaa tatcttctta ctgatcaaca 60  
 catgcacagt ggccaaagat gcatgggaga tctgaaaac cactcatgaa ggaacctcca 120  
 aagggaagat gtccagattg caactattgg ctacaaaatt cgaaaatctg aagatgaagg 180  
 aggaagaatg tattcatgac ttccacatga acattcttga aattgccaat gcttgcaactg 240  
 ccttgggaga gaggatgaca gatgaaaagc tggtaagaaa gatcctcaga tccttgccta 300  
 agagatttga catgaaagtc actgcaatag aggaggccca agacatttgc aacatgagag 360  
 tagatgaact cattgggttc cttcaaacct ttgagctagg actctcgat agggctgaaa 420  
 agaagagcaa gaatctggct t 441

<210> 9234  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <400> 9234

tgatggtgtc gagaagaaac acttgtgtgt catcattttt aagggggaga atgtgaatgt 60  
 atgtatacat gattttgatg atgtcaaaga agaactaac aaggctgctt caatcgataa 120  
 acatttgctt caagaataat tcaagaatgc ttcaacaaac aaagccttgt ttgaagattc 180

actaaagacc aagccttgcc ttaaaacaaa gtgctttcaa gacatgcaag gctctggtaa 240  
 tcgattacca ggaagtgtaa tcgattacca gaagacaggg ttgagaaata gctgttgaaa 300  
 aaggttctga atttgaattc tcaacatgta atcgattacc gtatgtctgt aatcgattac 360  
 cagcaacgaa actttgaaat tcaattccaa agtcat 396

<210> 9235  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9235

ntccctcttt gaacaaatac ccctcagcca tatagaattc atcttgggcc tttttcccaa 60  
 aactctcgta agtgggagag aaatgttcat ctaaagcata caagtcccta atattatcaa 120  
 atcctaaaat ttgagctcct aggagctaa acaatgtgtg tctcctagag agggcattag 180  
 ctaccacatt tgtttttccc tttttgtatt tgataacata tggaaattgc tttagggtact 240  
 ctaccatttt tgcattgcctc ttgtttaact tgctttgcc tctaattgtac ttaagtgtatt 300  
 gatgatcact atgaatgaca aattccttgg aaacaaggta atgttcccaa gtttgaggagg 360  
 ctcttattaa ggcatataagt tctttatcat 390

<210> 9236  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 9236

ctttgaaaat acagggcatc tttgccttat atagtcata gacaaaacat aaaaaataac 60  
 agaataaaact tccatatgga tttagggtcac aaccaacaa ttcaccacct tgaactaaca 120  
 tccatatagg acacaaactg ctccctctaa gcacacaaga acttaacccc aacaatcaac 180  
 attgagcaag ctttaagcatt gatcaaacat gctctttgga actggctttg tgaaaatatc 240  
 agcaggattg tgcagagtgc tgatcttatg aactttgatt cttctttctg accgaatgaa 300  
 gtgatatcta acatctatat gcttggttct atcatgatga acctgatcct tggccaagca 360  
 tatagcacta aggctgtcac agtagatgtt agcatattct tgattaattc cgagatcatt 420

tatc

424

<210> 9237  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9237

agcttagcta cacatacctc tctaatagct aagcttttct ccttgagatg ataagctaga 60  
gcttagctac acacccccta taatagctaa gctcaccccc atgacaaaaa aacatgaaaa 120  
tacaaaaaaa aagtccttac tacaaagact actcaaaatg ccctgaaata caaggctaaa 180  
accctatact actagaatgg ccaaaatata aggcccggat gaaggaaata cttattctaa 240  
tatttacaaa gataagcggg ctcatactta gcccatgggc tcgaaatcta ccctaaggct 300  
catgagaacc ctanggcctt cccttggatc tctagcccta gcgctgttcg cctatcctcc 360  
accctcaact cttattcaga gacccatgaa ttgattgcct accgctgttt atgtgtccct 420  
caccatcgag tctg 434

<210> 9238  
<211> 412  
<212> DNA  
<213> Glycine max  
  
<400> 9238

ctaagcttac acttgataat ggagaacaca tgaacagcgc taggtaatga cattcattgt 60  
actccgaaca aaggtggagt atggaggatt gccttgaggg tccgcactta ggcaatcatg 120  
aaactcagct ccaaactcga aagtggagga cacatgaaca gccctaaaca agaacattca 180  
tgtggctccg gaacaggatg agaatggagg attgccttga gggtcctctc ttaggcaatc 240  
atggaacaca gctccagact cgaaaatgga ggaaacatga acatccctaa gcaataacat 300  
tcatgtggct ccggaaaagg atgagaatgg aggaatgcct tgagggtcct ctcttatgca 360  
atcatggaac tcagctccag actcaaaaagt ggaggacaca tgaacagccc ta 412

<210> 9239  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9239

ntactgaaga aagcaatatg tcgtctctgc tgcattatta cagcacctat acctctacca 60  
gccgcatcac actcaacttc aaaaggtaaa tcaaaatttg gaataattag cacaggggga 120  
gaagtcatga toctcttcat ctctctcaaag gccttgacag cttctattcc ccaagaaaaa 180  
atgtctttct tagtcaattc ggtgagaggt tttgctattt taccataatc ttggataaaa 240  
tttctataat accctgtgag gcccaaaaaa ccacgtaccc ccttcacatt ctntggtgtg 300  
ggccatgcaa gaatacagtt caccttttca ggggtccattg ccacaccttc tccagaaatg 360  
atatggccaa gataatcaat ntgagcacac ccaaacctac actttgcttg atttgcacan 420  
aacaatgctc aac 433

<210> 9240  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9240

tcatgatgat gaatcaagtt gattcaagta gttttgatga tgacaaaaag cctaagataa 60  
gtttgatttc gagattcaag agaagatgaa ttcaagattc aagagaagaa atcaagaaga 120  
cttcacaagg taagtattga aaagattttt caaaaaacaa acatagcaca attttgtttt 180  
tcaaaagagt ttttctcaaa attttctaag ttaccaaaagt ttttactctc tggtaatcga 240  
ttaccaatta cctgtaatcg attaccagtg gcaaagtttg atttcaaaag cttttaactg 300  
aatttgcaac attctaattg atttttttaa tgggtgtaatc gattacaata tattagtaat 360  
cgattacatg gtggtggtaa tcgattacca gtgacaagtt ttgaataana atcaagagat 420  
gtaactcttc caatgggtta taagggtttt tc 452

<210> 9241  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 9241

ggcatccatt gcacgcttct tgtctcataa aaaatataat ataagctatg ttatcatggt 60

agcatagatg catttagtgt taaccaatga aatacctttt ttgttgcttg acaaattagg 120  
 ttgaacttga aaaccagctt aagttggcaa tggttgtaac ttcaatgcaa tagtgggtata 180  
 aagcaactta taattttctc tgttttattct gtgttggttaa tcagaatgca ccagatttgt 240  
 ctttcttctt gcttcatacg tgtgcccaca acccaactgg tgttgacacc actgaggagc 300  
 aatggagaga aatatca 317

<210> 9242  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 9242

acaacccttc ctttgtgttc agattgcttt acaacaagag acccttggtc tcttaatccc 60  
 ttttcagaaa taagatgaag agaagaagaa atctctcttg aaagagatag attgaacaat 120  
 ggagcactca aattattcct tattgaattg caagtgtatt ggccaacgaa tttttaagag 180  
 gataagacaa ttttggtttt gagaagataa gacctttttg ttcttaaaaa ctctaagcaa 240  
 atttgtgttc caaggcacat attaatagac ccttgatggc cattcaaaaa ccatttgaac 300  
 agatgtgact cttggaaatt aatttttgaa aatct 335

<210> 9243  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9243

tcaagaatta tggcctcatc aaactacttg tttcccgagg gaaattctat aaatagacct 60  
 cctatcttta atggagtggg ttaccattac tggaaaaccc gcatgcaaat ctttatagag 120  
 acaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
 gccggaagtg caacaataga aaaacctaga gcagactgga ctcacgaaga aagaagaata 240  
 gtacaatata atttaaaggc gaaaaatatt attacatctg ccctaggaat agatgaatac 300  
 tctaggggtt caaattgtan aagtgctaag gatatgtggg atacactaca agtaacacat 360  
 g 361

<210> 9244  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 9244

agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttcacccgac aaagacactg acgaaaactt atctttctct ttttggaata agtatgacaa 120  
 gctgggtgca agtaaatattt attcccatca gaccttggat gcaactgtga tcgtatcccc 180  
 atatcagcta gatcttgacg ggtattcaag ccatccttcg tctcaccttg aatcttaagg 240  
 agtgtcccaa tcacactatc acatacatctt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcta gatcagacca gtacggaaga tcaaagaaaa tggacctctt ctttcatatg 360  
 caactggtac ttttatac 377

<210> 9245  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9245

tctcgatata ttatgcgcct gaatcagact tccgtttcaa tagttatgac catatgaatn 60  
 tctccactgt attccgtgtg acaagttatg accatttgaa tttctcgata gcattcgatg 120  
 ttcaatttcg agcgtctcga tatattatgc gcctgaatcg gacttccgtg tgacaagtta 180  
 tgaccatttg aatatgtcga gagcatccga tgttagattt cgagcgtctc gatataattat 240  
 gcgcctgaat cagacatcc 259

<210> 9246  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 9246

agctttctga tatattatgt gcctgaatcg gacttccgtt tgaaaaatta ttaccatttg 60  
 aatttctcga gagctttggc tgttcagttt cgagtgtctc gatataattat gcgcctgaat 120  
 cggacttttg tgtgacaagt tatgaacatt tgaattttct gagacctttc ggtttctcaat 180

taagatcgtc tcgatatgtg atgcgccaga atcggacttc cgtgtgacaa gttatgacca 240  
 ttggaattta tcgagacctt ccgatcttca atttcgaggg tctcgatata ttatgtgcct 300  
 gaatcggact ttcgtgggac aagttatgaa cattggaatt tctcgagacc attcgttggt 360  
 caatttcgag cgtctcgata tattatgcgc ctgaatcgga cttccgtaga caggta 416

<210> 9247  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <400> 9247

ggagctcggg gtctttctga agttcctcag ctgacttgta gtagaatgag acatattctt 60  
 ccaccaaga cttgatagca tcccatatct ctagcccatc agaagcataa ggatagtcct 120  
 cgatcaaaag tctaactcca tggggagcag atggatcctt aacagcaact cctctgaatt 180  
 aaaagcacc aaataacatt gattagcaca agagttatat caagcctgaa gccctttttc 240  
 ttcttatgtc attgatgact ctttatatga tgcattcatg tgttcccca ttgtatgcac 300  
 tttgtgattt cttttgtctt ttttaatttac tgtcaaacac aaaactagag ctgaatcgga 360  
 acaagaaact atttccaaca caaaagactt gagctgaatc caacaacaa aaacaatatg 420  
 gcttgaaata aaaaaataa aa 442

<210> 9248  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9248

agcttcctca tggcnttctt gagaaacttt ctcaagaggc ttctttgaga agctaacgct 60  
 ntaactacta acacccttct aataactaaa ctcacctcct tgaaaataat tacagataaa 120  
 ataacacaac aaatataatc aaacatcaaa cataattact aataatatat agatatatat 180  
 atcaggggtg tacaactctc ctaccttttt aaaaatttcg tctcaaaat ttaccttact 240  
 caaacaagga tggatgagct tctcgcatth gactctctag ttcccacgtg gcatcttctc 300  
 ctgatgcacc tccctagatc accttgacca acggaatctc tttccctct 349



<210> 9249  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9249

taggccatag atacaagaga atgccctagg attctcatga gccttagggg aaattntggg 60  
 cccacagact aagtatgagc ccacttatct ttgtacatat tagattaaag tttcattatt 120  
 ttttgtcctt gtattttaagg ctccattgtg tagggagggt accctattaa tgtagaattt 180  
 ttcagccctt gtattttatg gcacctacac taatatttgt attaagggtg gttttgtaat 240  
 ttcacatgaa ttaagtgcac tattttatgt gtgtgttggg agataaattt aattgaattg 300  
 ggaaaagccc aatccaatcc a 321

<210> 9250  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9250

gcccgttgt tgtccctgta cacggttccg gtaatggtg cattgacggc accggtgggc 60  
 atgctcactt ggctgccacc ataagtgggtg acattaagtt gcagcctttt agagtcatca 120  
 ccggcttggg tctgaacggg gttggtgaga gtgtcgaagt tggagattga gaggaaggaa 180  
 gaaagagtgt gaaattgtaa aagttcaacc ttttgccctg cgttgagtga gttgaggaat 240  
 cctgctttta gctttgagaa ggcagaatca ggtggggaga aaatgggtcaa tccccagaa 300  
 cctgacgtga ggagttgaga gttgagttgg ttgatcaact gggtcgtctt cagaagccga 360  
 atcagaacag anaatctctt ggccttactc acgatttgag 400

<210> 9251  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 9251

agcttcactt gaaattaagt atttaattat atgggttcttg atttaatcac tattttctct 60

cccccttttg catcaacaaa aagccaaact acgtaagaaa tataaaacat acataaatga 120  
ctaatacat aagagaatat aaaataatta aacaagataa tttaactatt catcaaactt 180  
agaaaggtaa gaaatataaa aatcatatat aatgacata caaaataata gaaaacaatc 240  
aaacaagata acttaaccat tcatcaatct tagaaagata atacttaata gaatgtcata 300  
taatccagaa agttattcat attaaccaaa taaaactact 340

<210> 9252  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9252

agctnggact tcctgtgttt tgggaacctc tccttcctca ggtgtacca aaccaatca , 60  
cctggttcaa gcacgacttt cttctgtctt ttgttggtt gccttgcata gctcgcat 120  
ttcttttcaa tttgaacctt cacttgctca tgcaacttct tcacatactc agctatagcc 180  
tgtgcatcct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240  
aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300  
cgattataag caaactcaac atg 323

<210> 9253  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 9253

agcttgaatt tccttttagt atggaatcta tccttcctaa gctggagcca aaccctgtca 60  
ccctcattaa gaactagctc tttctttct ctattgctt tagttgaata cacctttgtt 120  
tggttcttta tttagttctt aaccctctca tgcaacttct ttacaaactc tgacctagat 180  
tccccctctt tatgtataaa agaagtgcct agtgggatta aaccataga caaccttaaa 240  
aggggactgc ttggtggttc tatgaacccc cttgttgtag gaaaattcta catgaggaag 300  
atactcatcc caagacttat ggttgctttt cagaagatcc cttaaaaggg tggataaaga 360  
cctattcact acctcta 377

<210> 9254  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9254

agcttatccc atgcctcctt agcagatggt gcataagaaa tcttctcgaa tgcattcattt 60  
 tttaatgctt gatagatgag gaagagagct ttattgtctc tctttcttga gtcctttaat 120  
 gtctcctttt gtacttggga tagtgaagtc tcatcttggt actcctttta gcattttttca 180  
 accatttccc aaacatcatg tgctccaaga agggccttca ttttgatgct ccaattgtca 240  
 taggtgctcc cctttagaag tggaaacttga aaggataccg cttcattgct tgccataact 300  
 atataggaat ttcttatcag aacctaagct ctgataccac tntgttggaa agaataaggt 360  
 tataggaagt atttaagaga catggaggag gggagaatat ctgaaagaga gctagtttta 420  
 tgacttgaga aatgtttt 438

<210> 9255  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9255

ngaaggcaaa ctggatgcat tggttaactn ggtaacccaa ctggccttga atcaaaaatc 60  
 tgtacctgtt gcaaggggtt gtggtttgtg ctctctgct gaccaccata cagacctttg 120  
 cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgcta caaatattta 180  
 caatagacct cctcaacatc agcagcaaaa tcaaccacag cagaacaatt atgagctctc 240  
 cagcaacaga tacaatcctg gatggaggaa tcaccctaac ctgagatggt ccagccctca 300  
 gcaacaaca 309

<210> 9256  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9256

ntatacacct tgtgcagtta tcctctattc gggtggacct attgtttctt ctaatgttct 60  
 tttagaaaca aaatgcaatt gtcttaaata tcatttttgg ttatgggaaa ttccatctgc 120  
 atgctttcat tccccataag tcgcattgtt tttttttaa aatgtgtgtt cttctgatcg 180  
 gtttatgggt ttgtttcttt actaagcgtg ttcacatttt agtgagagat ttcaagacta 240  
 caatgtcttt tgttttacat ttcaagactt caatgtcttt tgtctttata ttttcaagac 300  
 ttcatgtcc tctatcttta catttcaaga cttcaatgtc tttttgtctg tacattttca 360  
 agacttcaat gtcttctgtc ttacatttc aagacatcaa tgtgttctgt ctttacattc 420  
 tagagacttc aat 433

<210> 9257  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9257

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 tgtacttttc tgccttggg tccagtttag accgagatat ggaggggtgta tgcataaaaa 120  
 caatacaacc aaacactttt aaaggcattt cagtatgtaa tcgacatgct ggaaaaattg 180  
 ttttgaaagt gtccaaagg atgcggtaat ttaacacacg agtgggcatt ctatatataa 240  
 ngtaggttgc tgttaggacg gcatcccccc acaaatattt tggaacatta ctctcaaaca 300  
 tgatggcaca ggctacttca aggagatggt tatttttt 337

<210> 9258  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9258

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 aattcaagat tgaaattatt tcctggtaag ttgaaatcca aatgggtctga acctttcatc 120  
 atcaggaaaag ttccgcctta tgggtgcaata gagttgtatg atccacaatt tcaggacott 180  
 gactgaacat ggttgggtgaa tggccaaaga ttgaaactgt accatgggtg agagtttgaa 240

aaggcaaaca ccattctaaa ttgatataa cccattgagg tatatgcgtc aggctaata 300  
 cgtaaaaga ggccttcctg tgaggcaacc caactctgat ttctttcatt ttgtttttca 360  
 tg 362

<210> 9259  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 9259

agctttcaac tttcctattg aattagctat aaacctttgc gtgaaattga tcttcccaat 60  
 ccgactttga agctccttcc tattctgagg tggccttgct tccaacaatg ctttagcttt 120  
 atttttatct acctcaattc ctctttgatg gacaaggaaa cccaaaaatt ttcctactaa 180  
 tactccaaaa gcacatttct catgattcat tttaagcgta tgaaacctca tccttaacaa 240  
 agaatctttt agatcgccca agggctcctc aaaatcgatt gactttgcaa ccacatcatt 300  
 aatgtaaacc tccaccaatt taccaaccaa ttcattgaaa atagcattca tagccattg 360  
 ataaatggct cctatgttct ttaaaccaaa tgacattacc aaccattcat agatcccaag 420  
 cgtttgtgga catcgaaa 438

<210> 9260  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9260

atggtcataa ctnttctcac ggatgtccga ttcaggctta taatatatcg atacgctcga 60  
 aattaaacat cggaaactct cgcgaaattc aaatggatcat aacttttcac acggatatcg 120  
 gattcgggta cataatatgt ctagaagctc gaaattgaac aacggaagtg cttgagaatt 180  
 caaatgggtca taacttttca ccgatgtgac aattctggcg cataatatgt tgagaggctc 240  
 acaattgaac aacggaagct ctgagaaat ataaatgggg ataactcttc acacggatgt 300  
 gcgattcagg cgaatcacat atagagacac t 331

<210> 9261  
 <211> 412

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9261

agctntgagc aaattcaaac gaaaataact tttaactcag atgtctgac gagtcccaca 60  
atgcatcgag aggcacgaaa tataatacag aagctgtgag caaattctat cgacaataac 120  
tttgtaccct gatgtccaat tgagtcgagt tatattcgag acgctcgaaa ttgaatacag 180  
aagctgtgag ctaattctaa cgacaataat attttactcg gatgcccgac tgagtcacgt 240  
aatatatcga ggcgctcgaa atagaatata gaatctgtga gcaaattcta tcgaccataa 300  
ctttctactt ggatgtccaa ttgagtcacg ttatatctcg agacgctcta aattgaatac 360  
agaagtcttg tgcaaatcta acgacaatat ttttactccg atgtctaatag ag 412

<210> 9262  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 9262

tcaacattca atatcgagcg tttcgatata ttacaggact aaatcagaca tccgagtaaa 60  
aagttattgt agtttgaagt tgttcagagc taaggcattc aagtcagagc gtcttgatat 120  
actatgggac tcaatcagac atccgagtaa aaagttattg ccgtttgaat ttgctcaaag 180  
cttcggtctt caatttcgag cgattcaata tattgcggga ctcaatcgaa catacagata 240  
aaaacgtatt ggcgggttaa tttgctcaga gcttcgggat tcaatttcga gcgtctggat 300  
atattacggg tctcaat 317

<210> 9263  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9263

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ttaaacatga tgaaatttgg ttaaaagctt aaaaaataaa gccaaaatgg ctaaagttaa 120  
actgttccaa actttattat catttttgtt ccaaaaaact ttattattat tttaatcaga 180

ataaatgggtt agaatgtgtt tatttcaagg attaaaaattt tatcccagaa aatattttgt 240  
gaaacaaacg ttccattgtt attgttttca ttatttataa tatttttttg caataattat 300  
tactttaatc tcttataaca aatatttatt gatatcaatg atgcactttt atattataac 360  
ttgctaactt gacgtgatca aacagatata tagattataa aa 402

<210> 9264  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9264

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ggatatcgag aactcgttaa ttntaaacgg aagctctgag aaaaatcaaa cgacaataac 120  
ttttaactcg gatgtccgac tgagccctgt aatatagcga gacgctcgaa attgaaaacg 180  
gaagctctat gaaaagtcaa acgacaataa cttttgactc gaatgtccga ttgtgtcccg 240  
taggatatcg agacactggg aattttaaac ggaagctctg agaaaaatta aacgacaata 300  
acatttacct cggatgtccg attgagccct gtaatatatg gagacgctcg aaattgagaa 360  
cgggagatct tgaaaagtca aacgacaata acttttaact c 401

<210> 9265  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 9265

agcttccgtt ttcaattacg agcgtctcga taccctacgg gacacaatcg gacatccgag 60  
tcaaaagtta ttgtcgtttg aatttgctca cagcttcagt tttcaattac cagagtcttg 120  
atatattacg ggactcaatc agacatctga attgaaagggt attgtcattt gacttttcat 180  
agagctaccg atttcaattt cgagcgtctc gatataattaa agggctcaat cggacatccg 240  
agttaaaagt tattgtcggt tgattattct aagagactta gggtttcaatt acgagcgtct 300  
cgatattata cgcgacacaa tcggacatcc gagtcaaaag tattgtcggt tgatatgcgc 360  
agagctttta ttttaaatac gagcgtctcg atatatta 398

<210> 9266  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 9266

gcttaacatc agaccacttt egggtgctgg aactacttca catggacttg atggggccta 60  
 tgcaagttga aagccttggg ggaagaggt atgcctatgt tgttgtggat gatttctcca 120  
 gatttacctg tgtcaacttt atcagagaga aatcagacac ctttgaagta ttcaaagagt 180  
 tgagtctaag acttcaaaga gaaaaagact gtgtcatcaa gagaatcagg agtgatcatg 240  
 gcagagagtt tgaaaacagc aagtttactg atttctgcac atctgaaggc atcactcatg 300  
 agttctctgc agccattaca cccaacaaa a 331

<210> 9267  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9267

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 actataacat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120  
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aaatattgga gaagcaactg ctctgaaatc 240  
 tgatggtgag ggaaactgac acatagtttt ttaaattctt cccagtattc atacaggatc 300  
 tctccactga gttgtctaata acctgagata tccttctga tggctatggc cttggaagca 360  
 ggngaaatnt tttctaagaa tactctcttc aagtcatccc agctcgtgat ggaccttgga 420  
 g 421

<210> 9268  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 9268

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tgtaaattca ctcattaagt gttataatta atatataatt ctatatcaaa cttttgtttg 120  
 tgaaaaccaa tagtgactga tgcaatccta ccccgtagag aaggccttag gggtctcatg 180  
 agtcttaggg tagatttcgg tcccatgggc taagtttgag tccgcttatc tttgtacata 240  
 ttagattaag gtttcattat ttttgggcct tgtatttagg gctccataaa ataggtaagg 300  
 taccctagaa atgtaggatt tttcagctct tctatttttag ggcacataga ctagtttttg 360  
 tattaagggg agttttgtaa tttcacatgc attaagtga tttcgtatgt gtgtgggtgg 420  
 aaataaa 427

<210> 9269  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9269

cctccataag aaaattcttt gtcttctccg catcataaaa gtntgattct ctagttacac 60  
 gctctacctc ctataattgt ccagtttttag cagcggcctc aatgtacttg aagtgaatat 120  
 caggatcctc actttacaag acagaacaaa aaaaattaca gtaattgaaa aaaaaaaagt 180  
 caagcagacc aactagtga ctgaggtcat gtccactctc caataaaaaa gaaatacctg 240  
 gagctcaagt atgcacccaa gaaaaagtat agtccttcat aggatttgaa ttgctcaaag 300  
 agtttaatgc atgcatcaac acccaactgc tcagaatatt ccttagcagt ctgcaaacca 360  
 tgtactagta agaatttctt atagatgaat tgcggaattc aaaaaataaa atagaacatg 420  
 actctta 427

<210> 9270  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9270

agcttatgac catnttaatt tctcgggagt ntccattggt caataaccaa tgtctcgata 60  
 tattatgcac ctgaatcgga aatccaagtg aaaagttatg accattttta tttctcgagg 120  
 gatttcgttg ttcaattttc agtgtctcca tatatggtgt gcctgaatcg gacctccgtg 180

tgataactta tgaccatttg aattttcttga gagatttcgt tgttcaattt caagcgtctc 240  
gataaatgat ggcctgaat cggacatcca agtgaaaagt tctgaccatt tgaattttctc 300  
gtcggctacc tgtgtcaaat tcgagcatct cgcattgtgat ggcctgaatc gacctc 356

<210> 9271  
<211> 284  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9271

tctagaggct nggattatct accccatttt cgatagtact tgggtaagcc caatccagggt 60  
ggtagccaaag aaaggggggca tgacaatcat tcagaatgaa aagaatgacc taatcccaac 120  
aaggactttc actgactgga gaatatgcat cgattaccac aagctcaacg aagccacgag 180  
gaaagaccac tttctttttc ctttcatgga ccaaatgttg gataggcttg cgggacgggc 240  
ttattactac ttcttgtatg gatactttgg atataatcaa atta 284

<210> 9272  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9272

ntatagcct tgtgcgggtt tcctctattc gattagaccc agtgtttctt ctaatgctcc 60  
tttagaaatg aaatgcaagt gtcttaaattc tcatttttgg tcatgagaaa ttctatttgt 120  
atgctttcat tcctccttca tcgcattttt ttatataaaa aaatgtgtga ttgatctgat 180  
cggtttgggg gtttgtttct ttaccaagcg tgttgcatt ttagtatttt agtgaaaact 240  
tttagagact tcaatgtctt cagtctttac attttcaaga cttcaatgtc tccagtcttt 300  
acatttcaag acttcaatgt cttcagtctt tacatttcaa gacttcaatg ctttctgtct 360  
tttacatttc aagacttcaa tgtcttcagt cttta 395

<210> 9273  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 9273

agcttgtttg ttagaaagac ccaacgcttt ttacctattt gatgcaatcc taccocgcaa 60  
gggcattggg tagaagactc caagtcgatt gggctagaga tccaagggaa ggtcctaggg 120  
ttctcatgag ccttagggta gatttcgagc ccatgggcta agtatgagcc cgcttatctt 180  
tgtaaattatt agaataagggt tttccttcct ctgggccttg tattttggcc attctagtag 240  
tataatgttt tagccttgta ttttggggca ttttgagtag tctttgtagt aaggactttt 300  
tttttgattt ttcatgtttt ttgtcatgga ggtgagctta gctattatag ggggtgtgta 360  
gctaagctct atcttctcat ctcaaggagg tgagcttatt tattagagag gtatgtgt 418

<210> 9274

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9274

caaactggga naagaagtag ccacaaacaa aaacatagct gaagaagaga gtgattgtcc 60  
aatcacaaca tcaagtagac gtcgtcttta tcttcccga aggatcatgc atattattcc 120  
tattgcacat tcgtctgaaa atcctaattc aaaccacaat gggtgtgatg agaaacatgt 180  
ttccctatat gaaacgccta gagagctcta tggaaagctc agactntcaa gaaggatgat 240  
acttgatcat aagtcaaaca agtatctgaa ggtgttataa caattaatca atcaactaga 300  
gaaagagagc ttcatatatc atggaggatg agccaaggaa tagcggatga aanaataatn 360  
ggtactaatt tgatcatgga 380

<210> 9275

<211> 255

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9275

agcttggtgt attccaagtt gattaatcat acctttaagc cagattgctt ccttcaactcc 60  
ttcagctatg gccatgtatt ctgcttcagt tggtgtaaga gcaacaactg attgttgatt 120  
tgctttccaa ctgattgttg taccaaacan agtaaacaca tatectatta aggacttcct 180

tgtgtctaca tttcctgcaa aatctgcac tacatagect gtgactgctg gctcgtgtgc 240  
tgtcttcttg tacct 255

<210> 9276  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9276

tctaactgag gcagccaaca naataaatgc aagataaagt tctttcctga agagacgaat 60  
tttcttcgtc ttcccagttt tttttgacaa ttctagtttg cttagttcct caatgcctga 120  
atctgaggat gatctatgaa gactattaga tcgcattaga ggctcagctt ctttctcaaa 180  
ggcaacccaa tcagtctcag acgatcttcc caactttttt gtaaccaccc actcgtgaaga 240  
acttccaaag cgaagtaatc cagatatcat ggcatataat ttagttaccg acatagtgtt 300  
ctcaaataga aggtaaggaa ctataaacgg aatgaccgt ggagctggta gaacacttat 360  
gagggacatg att 373

<210> 9277  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9277

agcttgtcca taaaaatagg tttttgaagt tcatcatttc aatttctcat taagtaaaat 60  
ggatcatttt caaggtccaa cgccttaaaa tgatcacctc ttaagtaaaa aaaagagtcg 120  
cttgataagc aagaactacg taggtctgat ttctcatcg caattgagga tacgtangag 180  
caaaagcccc gcttttgtcg accaccccaa gagatcgta atggccaat gccttaacgt 240  
ttctctcctt tcaaaaacaa gagatcgta atggccaac gccttaacgt ttctccctt 300  
tcaaaatcaa aagaccgtgt aatgngtcaa caccttaaat gaccctttgt tcaataaaaa 360  
catattttgc gaaaaagata aaacaccta ccaacact 398

<210> 9278  
<211> 374

<212> DNA  
 <213> Glycine max  
 <400> 9278

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agcttgtgtc acactctcaa ctgccgaagc taaatatatt gccgcatgaa gatgttgtgc 60
tcaaagtctc tagatgaagc aacaactaca agactttaga gtaaaccttg atcacattcc 120
tctaaaatgg gacaacacac gtgttatcaa tctaaccaa aaccctgtca tgcattttat 180
gactaagcac atagaaatta ggcattatga atgcatcaag catagaataa cattctgttt 240
gtacaagtat gtgattcaca ttgctattca tatcattttt tttgtttagt ttgtgtctta 300
cttattgatt tatgtgcata ctcatagatt tgtttgaata tcacatgttt ttcttagtaa 360
tttcgtgatt tctc 374
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<210> 9279  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <400> 9279

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agcttgaagg aaaacttgat gccttgggtc ttctattaac ccagcttgcc atgaataaaa 60
aatctacacc tgttgcaaga gtttgtggtc tatattattc tacagatcac cattcagatc 120
tttgtccttt tttgcagcaa tttggagtca atgagcaact tgaagcttat gctgcaaaca 180
tttataatag acctcaatag tagtgaaacc aacaacagca aaataattat gaccttttaa 240
gcaatagata caatccaggc tggaggaatc atccaaatct aagatggaca agtcctccac 300
aacaacaata gcctatctct ctttttcaga atgctgctgg tctaagcaag ccatatgttc 360
ctcctccaat acaacaacag tag 383
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<210> 9280  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <400> 9280

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gttacaaatc ttctacactt ggagtgatca cctgcagtc tcttgaacct ttaccacca 120
ctctgtcatc atgccgacac tcaagaagcc caatagggtt agccttctct aagtattctg 180
```

aaaaaaattc aatggcttct tctgcaatgt acctctcaac aatagatgct tctggacgat 240  
 atagattctt tgtataccct ttttaagatct tcatgtatcg ctcaaccggg tacattcacc 300  
 gttgataaac acgaacacaa cattt 325

<210> 9281  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 9281

agcttatgtt cataactatg gtatggtttt ctaatcttga aacttacaaa acagttatga 60  
 ataagtatgc agccatgcag gtacataatg aaacagtatc gatagcaatc actgcaaagg 120  
 gaagttgatt gtaattaccc tttagaagtt ttatcatgag tccaccagtg gccagtgttg 180  
 aagacgagaa tatctgcac tttatattga gatgaagatt taccaaccaa atcgagacga 240  
 agtggtttcct tctttgtccc attcttatca gtcatttccc cttcttgaac caagaatgga 300  
 gacacaaaaa gctccacgga gaagtataa tcctattgag ataccaaacc agctctgtga 360  
 ggtaaagaat aataaatcaa ag 382

<210> 9282  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 9282

cttgagcaat tcaatgggtca taactatata ctcaagttttt cgattcaggc gcataatata 60  
 tcgagacgct cgaaattgga caatggaagc tcttgagcaa ttcaaattgt cataactttc 120  
 aactgggagg tgcaaatcat gcgcattata tattgacatg ctcgaaattg aacaacggaa 180  
 gctcttgaga aattcaaattg gtcataactt tacactcgga tgtccgattc aggcgcataa 240  
 tatttcgaga cgctcgaata tgaacaattg aagctcttga gcaagtcaaa tggtcataac 300  
 ttttaacttg gatgtgcgat tcatgcgctt aatatatcga gacgctcgaa attgtacaat 360  
 gg 362

<210> 9283  
 <211> 371

<212> DNA  
<213> Glycine max

<400> 9283

agcttcatga gagagtcaaa gatcaaattt ataggaaaag taaaagctat gctaaacaag 60  
ccaacaaagg gagaaagaaa gttgtcttct aacccggaaga ttgggttttg gtgcacatga 120  
gaaaagaaag gtttccgga cagaggaaat caaagcttca accaagggga gatggaccat 180  
ttcaagtgtc tgacagaatc aatgacaatg cttacaaagt tgagctgcc ggtgagtata 240  
atgttagttc caccttcaat gtctctgatt tacctctttt tgatgcagat ggagaatccg 300  
atttgaggac aaatccttct caagaggag agaatgatga ggacatgacc aatagcaagg 360  
gcaaggatcc a 371

<210> 9284  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 9284

agcttctcgg tatattatgc acctgaatat tacctccggg tgacaagtta tgaccatttg 60  
aatttctcga gagcttccgt tgttcaattt cgagcgtctc gatattctat gcgcttgaat 120  
cggacctccg agtgaaaagt taagaccatt tgaattgctc aatagcttcc actattcaat 180  
ttctagcgtc tcgatatatt atacgcctga atcggacctc cgagtgaaaa gttgtgacca 240  
tttgaatttc tcgagagctt ccgttggtca acttagagcg tctcgatatt ttatgcgcgt 300  
taatcagacc tccgagttaa aagttatgac catttgaata tctcgagagc tttcg 355

<210> 9285  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9285

tcttcttcaa taaaccgttt aaaaaggcac tcttatcatc cttttgaaaa agcttaatgt 60  
ttttgtgagc aacaaaggct aaaatgattc ttataacttc aagtctagca acatgaacaa 120  
aggtttcaga gaaatctata actttntggt gattatatcc tcaagctact aacctagctt 180

tggtgcatac tacttttccct tggtcatcca acttgtttct gaagattcat cttgttccaa 240  
 tgggtgctcct ngtttctggc attggaacaa atgtccagac atcatttttg ttaaactgat 300  
 tcagtttttc ttccattgtg attatttagt catnttctat caaagctttg tctatagttt 360  
 taggtttgat ttcaaacaca tgggtctttga atga 394

<210> 9286  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9286

gctttatagc tnggttagtt nctatggagg tgtgtaatga tttatctcct aggttgcacc 60  
 tcttaatgaa attgttaaga aaaatgtggg ctttaaattgg gggcgggcgg ggagagggac 120  
 aataacatgc atttgctcca ctcaaagaaa aattgactcg tgcacctatt cttgcattgc 180  
 ctaattatgc aaaatctttt gaaatcgaat gtgatgcac taatgtgggg atataggttg 240  
 gtttgattca agatggacat tccattgctt attttaagga aatgataaat gggggttgtc 300  
 ttagttattc acatatgata atgagttgat gccttgggta tagccttaca acttggcaac 360  
 atttcttttc ccaagagtt 379

<210> 9287  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9287

tctatagaag gtcgttccta atttctctac aattgcatca cctctcaatg agctggtgaa 60  
 gaagaatgtg gcattttacct gnggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120  
 aaagcttact aaggcacctg ttctagctct tctgacttt tctaaaactt ttgagctaga 180  
 atgtgatacc tctggagtgg gagttggagc tgtattgtta caaggtgggc accctattgc 240  
 ttatttttagt gaaaaacttc atagtgccac cctcaactac cccacctatg ataaagagct 300  
 ttatgcctta ataagagccc tccaaacttg ggaacatta 339

<210> 9288



<211> 313  
 <212> DNA  
 <213> Glycine max

<400> 9288

tacttggatg acctccaatt tgtggactct tccatttatt gtccatatgg ttttcttgag 60  
 gatgatcttg tcaaggtgaa taaatttatt tttctggcca actttgtagt gatggacatg 120  
 gaaaaggact ccaaagtgcc acttaatttg gaagaccctt ctagaacacc actaagattt 180  
 tggttaatgt gcatgatggt caaacaagc ttagtgtcat ttgatgaaga gatcacattc 240  
 aatgtgtttg agactatgaa tcacctatta gatgagaaat cttatcttct gatggatgtt 300  
 cttgatgatg ctt 313

<210> 9289  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 9289

agctttgagc aaatttctaag gacaataact ttttactcgg atgctcgatt gaggcccgta 60  
 atatatcgag aggcctcaaag ttgaaagccg aagctcctag ccaattcaaa tgacaataac 120  
 tttcaactcg gatgtccaat tgagtcctgt aatatatcga gacacgcgaa attgtaaata 180  
 gaagctctag tcaaatttta acgacaataa ctttttactc gaatgcccg tagagtcccg 240  
 taatatatcg agaggctcaa aattgaaaac agagtctcct agcaaattca aaccacaata 300  
 agttttgact cgtatgtccg attgagtgcc gtaatatac gagacgctca aaatataaaa 360  
 ttaaagctt 369

<210> 9290  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9290

agcttcctta agaagattct taaagttttt agagcttagc taaacacacc tctctaatag 60  
 ctaagctcac ctcttgaga tgagaagcta gagcttatct acacaccccc tataatagct 120  
 aactcatccc catgacaaaa tacatgaaaa taaaaaaaaat tctctactac aaagactact 180

caaaatgtct cgaaatacaa ggctaaaacc ttatactact agaatgacca aaatacaagg 240  
 cccaaacgaa gcaaaaacct attctaatat ttacaaagat aagcgggctc atacttagcc 300  
 catgggctcg aaatctatca taaggctcat gagaacccta nggccttccc ttggatctct 360  
 ggtccaatct acttgat 378

<210> 9291  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 9291

agctttttaa ccttgagttt tatgaatatt attttattgg aagtattcct cctgagctag 60  
 gaaatttatt tctgttgag actctgagg tctatcacia taatttgaat tccaccattc 120  
 catcttccat tttccactag aaatcgctaa cacatttagg actctcagag aatatattgg 180  
 aaggaacaat attctctgag attggatctc tgaattcctt acaggctcta accctgcatt 240  
 caaatgcttt aactgggaag atcccttcat caataacaaa cttgacaaaac ttgacctatc 300  
 tgtaatgag ccagaatatt ctcttaggtg aacttgctcc aa 342

<210> 9292  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9292

tctcacaatt ctncccaatc ttctgggaat aaccctactt aactgattaa aagacagatt 60  
 caccctcta agcctcccta caaaaccggg aacagaacca ttcaattcat taccagccaa 120  
 atcaaaacct ccaatctctc aagagacca attgaactag gtatctctcc aacaatccta 180  
 ttaaacccca gattcaaaac cctcaaattc ttcaagccat cgactctcaa gggaagatag 240  
 ccactaatca aattcccttc ttaatcgaga acctcgaggt tctccatgcc ccaaactcgt 300  
 ttcgggattt cactctcaa cgcggtgaag gggagagaca aaaccctaag ctccgtgagc 360  
 tcggcgatca aactcagaga agaaacattt tcgaag 396

<210> 9293

<211> 407  
<212> DNA  
<213> Glycine max

<400> 9293

ggatccttga gtcacctgcg gcatgcaagc ttgaaaaaca taagtagttt cagccttagt 60  
tttaatagga aatatccaag tatatctgga aaaggcatca ataaaggata cataatactt 120  
gaaaacagaa tagtaagtta aatgagatgg tccccacaga tctgtaaaaa aaagttctag 180  
gggagagtaa acagaagtag aagaatgaga tggtagcctg tgagacattc ccaagcaaca 240  
agaagcacia aagtctgaaa aaaatttatt atatgaagaa atattacact ggttgaagac 300  
tagcttcatt acatgactat tgggatggcc taacctagca tgccaaagac taacagtgct 360  
aggaggagaa ataacagaac tgggaagctac actagaattt ttattaa 407

<210> 9294  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 9294

agcttgtaat cgattacaca catactgtaa tcgattacca gaggagattt tcagaaaata 60  
ttctcaacag tcacatcttt tcatttggtt cttgaatggt catcaaaggc ctatatatat 120  
gtgacttgag acacgaattt gctaagagtt tttctgaaca acaagtgttt attctctcaa 180  
aaagcaaaat cgttttatcc tcttaagaat tccttggcca attcaattgc aattcattaa 240  
ggaatcattt gagtgtcag attgtaaaat ctatctcttc aagagagatt cattcttctt 300  
ctctttctaa ttcactaagg gattaagaga ccgagggctt cttgttgtaa aagaattcta 360  
aacacaaag 369

<210> 9295  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 9295

ctttcagcaa attcaaacga caatactttt ttctcatat gtctgattga gaccgtaat 60  
atatcgagac gatcgaaatt gaattctgaa gctctgagct aattcaaacg acaataatga 120

tttgctcgga tgtctgattg agtcccgtaa tacatcgaga cgctcgaaat tgaatggtga 180  
agctctcagc aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgta 240  
aaacatcgag acgctcgaaa ttgaatggtg aagctctcag caaattcaaa cgacaataac 300  
atttttcctc agatgtctga ttgagacccg taatatatcg agacgatcga aattgaattt 360  
tg 362

<210> 9296  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 9296

tcaacattca actctagcgt ctcgttatat tatatgactc aattagacat ccgattaata 60  
atatattgtc gttggaattt gctcagagct tcaacattca atttcgagcg tgttgatata 120  
ttacgggact caatcagaca tccgagtaaa aagttattgt cgcttgaatt tgctcaaagc 180  
ttcaacattc aacttcgagc gtctcggtat attataggac tcaattagac atccgagtaa 240  
atagttattg tccggttgaat ttgctcagag cttcaacatt caatttcgag cgtctccata 300  
tattacagga ctcaatcaga catccgagta aaacggtatt ggtgggtgaa tttgctcaga 360  
gcttcaaaaa tcaacttttcg agcgtcttga tatatt 396

<210> 9297  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9297

agcttcttat ctttaaaca agcaggggtc ttctattca acatttaa at acagtaagga 60  
accaatcata cctttgtact cccttntgg agaattatta cctttctcat cctcatcatc 120  
tttctggatt attagaagcc ctaggaagaa ctttagctca cccatcgta tcatattcaaa 180  
ttcatctttc attagggttaa aaatcttctt acacatcctt tctaagggtg caccaattat 240  
tatgtcattt gcatagatct gaacaattag aagggttctt ttctatgcct ttctaaatag 300  
tgtagtggtc actattcctt tatgtcatct acatagattt gaacaatcaa aagggtttct 360  
ttct 364

<210> 9298  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 9298

agctttgagc taattcaaac gacaataatg ttttgttctg atgtctgatt gagacccgta 60  
 atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgagtcccat aatacatcga gacgctcgaa attgaatggt 180  
 gaagctctca gcaaattcaa acgacaataa cttttttact catatgtctg attgagtccc 240  
 gtaatatatc gagacgatcg aaattgaatt ctgaagctct aagctaattc aaacgacaat 300  
 aactttttgc tcggatgtct gatggagtcc cgtaatctat tgagacgct 349

<210> 9299  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9299

agcttcaacc aaggggagat ggaccatttc aagtgtttga aagaatcaat gacaatgctt 60  
 acaaagttga gctgccaat gagtataatg ttagttccac cttcaatgtc tctaatttat 120  
 ctctttttga tgcagatgga gaatccgatt tgaggacaaa tccttctcaa gaaggagaga 180  
 atgatgagga catgaccaan agcaaggga aggatccact tgaaggactt ggagggcctg 240  
 tgacaagggc tagagcaagg aaagccaagg aagctcttcg acaagtgttg tccatactat 300  
 ntgaatacaa gccaagttt caaggagaaa agtccaaggt tgtgagttgt atcatggccc 360  
 aaaaggtgga ggactaactg 380

<210> 9300  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9300

ntngagaaat tcaaattggtc aaactcttct cacggatgtc cgattcatgc ttataatata 60

tcgatacgct cgaaattaaa catcggaac tctcgcgaaa ttcaaattgg cataactttt 120  
cacacggata tcggattcgg gtacataata tgtctagaag ctcgaaattg aacaacggaa 180  
gtgcttgaaa attcaaattg tcataacttt tcaccggatg tgctattcgg gcgcatatta 240  
tgtcgagagg ctcaaatatt aacaacggga gctcttgaga aatataaatg ggcataactc 300  
ttcacacgga tgtgcgattc ccggaataa catattgaga cact 344

<210> 9301  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 9301

gacacctgaa actaagcttt catatgatgg tggtagagag ctaacagaat catgtcaaca 60  
tcttcattcct ctattctaac atctatatct cttaattcca tcaaaataga attcaattca 120  
tcaagatgat ctttaagaga tgtaccttct ttcattgtga aaccaaattg actccttttc 180  
aagaagagtt tgttgcagat tgacttagtc atatacaact tttccaactt gagccataat 240  
tcacttgag tttcttcatt tgcaacttca tataaaactt catcagacaa ggaaagcagg 300  
attagttagt gagccttttc ttcttgttct gcaagttctt caatctttta 350

<210> 9302  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 9302

agcttatgac cattttaatt tctcgggttt ttccattggt caataaccaa tgtctcgata 60  
tattatgcac ctgaatcgga aatccaagtg aaaagttatg accatttgaa tttctcgagg 120  
gattttgttg ttcaattttc agtgtctcca tatatggtgt gcttgaatcg gacctcgtg 180  
tgataactta tgaccatttg aatttcttga gagatttcgt tgttcaattt caagcgtctc 240  
gataaatgat gcgcctgaat cggacatcca agtgaaaagt tatgaccatt tgaatttctc 300  
gtcagcttcc gttgttcaat ttcgagcatc tcgacatgtg at 342

<210> 9303  
<211> 369

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9303  
  
 agcttgaact ngacttgtn tataacttat ttattntct aactatgaat ttagtgttta 60  
 ataaaggaat ttaatactag ataataatct tcaaatagaa aaatatgtgt taagcatgtg 120  
 gtataatatt atggaatcca tataatttta atttttctat aatacatata gtttgggcta 180  
 ttagagttat tcatgaacta tatggatgtc gagcttgtaa aatttgatct taatctactt 240  
 aaataatcaa gctcaatctt aaatttgagt ttgtttatct acttaaacia ataaacttgg 300  
 tcaaacattt agtgaatcaa actcaaagt tcacaaataa ttgatccat ttacatctct 360  
 aattgtccc 369

<210> 9304  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9304  
  
 agcttggcct gctcggngtc ctgctcctta cactgcctt caccgctctt tggcttggtc 60  
 ttgggccttg aggccacagt cgcgtccctg ttggaggcgg gactatggcc accatcatcc 120  
 agcacgacc aaatctcttc gcatagtttt cgacattgtc ttcctacaca tctgtcttca 180  
 tgtattctat catttgctcc ttgaaattgc tatacatctt tttcttcttc caccgatggc 240  
 atgtacgaga atcaaaattt tgaactaggg aaaggagaga accttcgagg tgcacacga 300  
 tcgtgtgtgt tggggaaaga gggaggagaa ggtgtggtca atttcaaat cctagttgtt 360  
 attgga 366

<210> 9305  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9305  
  
 agcttcaagg atgaggacca ttcttggttc tcaaacatgg aaaactttta ggccacaaga 60  
 caaccactgg aaggtatgaa attccactac agaaaaaggt tcttccgaga aaccaccaag 120

tatgtttggg atgaccctac tctttttcgt attggtattg aaaatttggt aaggcaatgt 180  
 gtaacaaaag gagaacaagc aagcatactt tggcattgcc acaactcatt atatggagac 240  
 cacttcaacg cacaaagaac aactgcaaag atccttcaag ccaaattcta ttggcctaca 300  
 ctctgccagg tgctcataac catgcactat catgcatag ttgtgaatta gccacaaca 360  
 tatctagaca tgaaatgc 378

<210> 9306  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9306

aaactcaagc ttatacaaaa gtccaaaaca ttaatatatt tccccttttt caatttatga 60  
 aactacttat taaattatta taattatttt ttgggttttt atcgtaagaa ttaaagataa 120  
 tattaagata ttataacac ttatgcacca tgttgaacca actaaattat acctcatttc 180  
 taattatttt tgtttgatat caatttttta atcttaaact atattttaat tcttaaattg 240  
 attattaaat atatcatatt tataaaacaa atctccatac attgagtcaa attcttaaatt 300  
 aataaaattt tatctttcaa tatattagtt tctcaacctc aactaagata acatggtcac 360  
 ctantttttc ttatataata taaaaaataa ttaata 396

<210> 9307  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9307

taagcatttn gtccatgagt attgcatata caggtttcgc ttcataatac attaaacaca 60  
 aatattttta ttactgtcat tctgtcaatc tatcaagtgt gacttgtgca gccaaaggaa 120  
 attactacat agaatcccca ccccggtacc ccccaaatg tgaacatgat aatgggtacc 180  
 tggcagaaag tgggtgaaaa aaccctggag tcctttcatt tgaagcaata aacaaagttc 240  
 ttccagggtg gaccactttt gctatcctac aaagcataaa ctctggccga gtgtctctat 300  
 caaagtgagg gtgcaagctc ctactacac caaatctatc ttcc 344



<210> 9308  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 9308

agcttctgtc cctgagaatc tggttcctat aagacaacag ggagtgaaga ttgctgaaaa 60  
 ccctaaccctt gcaacaagtt ctagggaagt atacacggag atggacaaga caattcgcgg 120  
 tattgtgagt agcattttga aagaagcttc tgtgcctgat gctgagaaag atgttccaac 180  
 atcttccacc ccgaatgttt ctgtgcctga tgttgagaaa gatgttccaa catcttccgg 240  
 cccaaatgct gaagcactcc ctttaccat g 271

<210> 9309  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 9309

agcttgaatt tccttttagt atggaatcta tcctttctaa gctggagcca aaccctgtca 60  
 ccctcattaa gaactagctc ttttcttct ctattgcctt tagttgaata cacctttgtt 120  
 tggttcttta tttagttctt aaccctctca tgcaacttct ttacaaactc tgacctagat 180  
 tccccctctt tatgtataaa agaagtgcct agtgggatta aaccataga caaccttaaa 240  
 aggggactgc ttggtggttc tatgaacccc cttgtttagt gaaaattcta catg 294

<210> 9310  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9310

agctnttaga aaatgtcgat gctgagttat actatttttc ttccatgttt caattgtaca 60  
 tagcttatgt cttcttcaca catagtgcac gcaagatgaa ccttaacact gtatccactc 120  
 aaatttccgt atgctggaaa gtcattgatg atacaaaaca actttgcacg caacttgaat 180  
 gtctcatttc gatacctgat gtagctccat gtggagcttg tangccttgg atcttcttca 240

tcaatggagt attttgcttc ttgaagatca atggcatctg aatggagaag gaggaaaggt 300  
gattcgagat gccacttcaa aaagaagatg agtcaagaac aagctcacca ccataggaag 360  
ccatggataa gag 373

<210> 9311  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 9311

agctttgcat atcctttgat aaaccttcta tagtaaccag tgaggcctaa gaaacctctt 60  
agctgcttga tattgagtgg ttagggccac tctagaactg cctgcacctt agtagcatcc 120  
atagcaactc cttcacctgg aactatatgt cccaagtact ctatctccaa tacaccaaaa 180  
gagcatttag acaacttagc aaacaaaaca ttttctttca atactttgaa tacaacctct 240  
agatgggata agtggttcag ccatgtggaa ctatatacca atatatcatc aaaaaaact 300  
aacacatatt tccttaaagc atgttggaag atatggttca tcaaactg aaaagaagtc 360  
ggagcattgg ttaaa 375

<210> 9312  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 9312

agcttgacac agaccatacg aagattttgt gagtttatca aaccatgttg tcattcttga 60  
caagataacc aagaggcatg tccatgtata ctccctcaat caaatcacta ttgagaaaca 120  
cattatttaa atcaagctga aacatgttcc aatttctgtg aggtgcaatg gaaagaaaca 180  
ctctcattgc cgtatgcttg gcaacaagtg agaaagcgtc caaaaaatcg atctctgctt 240  
gttgtttgtt gcgtgtaccc ttttgcaaca aga 273

<210> 9313  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 9313

agcttagagg aaaaccattc gcattgttgt attttatttt cccgtāgaaa cccaaaaacta 60  
tctcggtaaa actatgatcc cagtttcggt aaccgttgga ttttcacgaa gtttgatata 120  
gtttttcgaa attcaattgc gcacacttcc accgttggga tttgtgagat aatattagt 180  
gagggagaaa aaggaatcgc atgaagacag tacaagtgga ggtttcaatc tcttctccgt 240  
ctctctgacg tttgggaatt ctatcggagc agtcggagga ataactgaag gaatctcaag 300  
gaaccactag agatgttact atcactagct gaagacacgt gagtccgctc agagataagg 360  
gatgagttta tcgcaattgg ggg 383

<210> 9314  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 9314  
agcttgtgct attccaaatt gaataatcat acctttaagc cacattgctt cttcactcc 60  
ttcagctatg gacatgtatt ctgcttcagt agttgaaaga gcaacaactg attgttgaat 120  
tgctttacaa ctgattgctg taccaaaca acgacacaca taccctatta aggacttcct 180  
tgtgtctaca tttcctgcaa aatctgcac tacatagcct gtgactgctg cctcgtgtgc 240  
tgtctttttg taccttatac tagctttcaa agatccattt agatacctta gtgtccactt 300  
cacagcttcc caatgtgcgc tgccaggata tgccatgaat ct 342

<210> 9315  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 9315  
agcttgtagc atattgaaac cgcaatatat cgagaagctc gaaattgaaa gaagaaactt 60  
tgagcaaatt caaatgacaa taaattttaa ctcgatgctc tgattgagtc ccttaatat 120  
tcgagacgct cgaaattgaa aaaaaagct caaagcaaatt tcaaacgata ataacttttt 180  
acttcgatgt ccgattgaga ccataatat atcgagacac tcgaaattga aaccaaaagc 240  
tctaagcaaa ttcaactgac aataactttt cattcagatg tctgattgag tcccgtaata 300  
tatcgagaca cacgaaattg aaac 325

<210> 9316  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9316

ntgatgcaac aatggagagg ttaatgaaac aactttatga tgcgctccat gagaggttgg 60  
 atcaaatgga gaatagagat cataataaag aagaaaggag gagaagaggg aatgatggtg 120  
 ttcttagaca aaaccgaatt gatggtatta aactcaacat tcccccttt aaaggaaaga 180  
 atgatccgga ggcctacttg gagtgggaga tgaaaataga gcatgttttc tcatgcaaca 240  
 aatatgagag ggaccaaag atgaagcttg ccgccatgga gttttccgac tatgctcttg 300  
 tgtggtggaa caagcttcaa aaggagagag ctagaaatga agagcctttg gttgatacat 360  
 ggacagagat gaaaaagatc a 381

<210> 9317  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 9317

agcttcaaga aaaagatggc ctacgcatc tccttatttc cagaagggaa ttctatcaat 60  
 aggctccaa tctttaatgg agagggttac cattactgga aaacccgaat gcaaattttt 120  
 attgaggcaa taaacctaaa tatttgggaa gccatagaaa tagggcctta tataccacc 180  
 acagtagaaa gaattacaat agatggcagt tcatcaagtg aaagtataac tatagaaaaa 240  
 cctagagata gatggtctga agaggataga aaacgagtaa tatacaattt aaaagccaaa 300  
 aacataataa catctgccct gcgaatggat gaatatttca gggtttcaaa ttgtaagagt 360  
 gctaacgaaa tgtggg 376

<210> 9318  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 9318

tcgaatttct caagagtttc cgttgttcaa tttttattgt gtagatgagt tatgtccccg 60

aatcggacat ctgtgtgaaa acttatgacc attcgatttt ctcgagagct tccgttggtc 120  
aatttcgagc gtctcgatgt attatgtccc cgaatcggac atctgtgtga aaacttatga 180  
ccattcgaat ttctcgagag cttccgttgt tcaatttcga gcgtctcgat gtattatgtc 240  
ccgaatcgg acattcgagt gaaaagttat gaccattcga atttttcgag agcttccggt 300  
gttcaatttc gagcgtctcg atatattatg tccccgaatc ggacatacgt gtgaaaacgt 360  
ttgaccattc caatttttcg agagctttcg ttgttcaatt tcgagcgtgt cgatatgtta 420  
tg 422

<210> 9319  
<211> 571  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9319

agcttcatgg gagagtcaaa gatcaaattg ttaggaaaaa taaaagctat gctaaacaag 60  
ccaacaaagg aagaaagaag gttgtcttcg aaccgggaga ttgggttttg gtgcacatga 120  
gaaaagaaag gtttccggaa cagaggaaat caaagcttca acaatgggga gatggaccat 180  
ttcaagtgtc tgaaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240  
atgttagttc caccttcaat gtctttgatt tacctctttt tgatgcagat gtagaatccg 300  
atgtgaggac aaatccttct caagaggag agaatgatga ggacatgacc aagagcaagg 360  
gcaaggatcc acttgaagga cttggaggac ctatgacaag ggctagagca aggaaagcca 420  
aggaagctct tcaacaagtg ctgtccatac tatttgaata caagccaag tttcaaggag 480  
aaaagtccaa gggtgtgagt tgtatcatgg cccanatgga ggaggactaa atgacaccac 540  
tttgtctcaa tttttagagt gtttagtttg c 571

<210> 9320  
<211> 556  
<212> DNA  
<213> Glycine max  
<400> 9320

tgttcatcga ttcaaaggca tccccaaaca caacacggac tattttcaca ttcttccaat 60

ccaaaataact tccttgccac cctcaaaacc tccctatcac tatccacacc catgacctca 120  
 aaaccaatt gattttctcaa aaaggtcatc aaagccccac ctccaacccc aaggcacaaa 180  
 gccttcgggc taaaccccat ccgaatccgc ccctccacat attcactatt caacacaaga 240  
 ccagccacca taggccccaa gtaaggggtgc accaaaacct taagatcagg cacaaccccc 300  
 acatcaccac caatgcacac accatcacia tctctctcaa gaataatata aatttcagtt 360  
 tgaatcaaat taggcattct cttaaaccct aacctcctcc taaactccct cccatgatca 420  
 ctctcatttt caattcaaca tcctcaaaca acatttcacc aacatgacac ccaacacatt 480  
 catgaaccac cacactagaa accaaactat cctcataact cacaaggggt atctcacgaa 540  
 tgcccctttt gaaaaa 556

<210> 9321  
 <211> 562  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9321

agcttcgcca tcgaagacgt tgttgatgtc agcaacgacg ttgaaatgta tgcttttttag 60  
 gtcaggctgt aacggcaacg acgtagtaat atataatttc aacgacggtg cttacgtaag 120  
 caccatcttt gaagttatat attactacgt cgttgcatcc gcaaccaccg ccgttgaatt 180  
 catgttcaac tacgtcggtta tcgtaagcat tgacgtagac aatttttttt ttactattaa 240  
 aaatgttgat tattatatta caaatataaa ataaacataa ttaatataag ctcaaaattt 300  
 ataaattatt attgtcaact aattaatatg ataagtaaata ataatttttg tgctataaat 360  
 tatggtttta cttaatttaa tattatataa ataagcaaca taatgataaa tcattatcaa 420  
 ccagtatttc aaatgtaacc ttatgagata aataaataac antaattaaa cataatatan 480  
 taccaataat aaataaggta aatctactaa cactactaca aaagtgggat tcacatcggt 540  
 gtgttaacat ggggtgtaaaa aa 562

<210> 9322  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <400> 9322

gcatgcaagc tttttacaat cgatatgggt gttattcttt gagaaatatt tgatgcctag 60  
 tgtagactat cttctttcca tgcttaagtt gcacaaagct tgtttgattt tcacaaattg 120  
 agcatgcaca atgcccttta acacttttate cactcaaatt cccaaatgct gaaaagtcac 180  
 taatggtaca aaataccatt gcatgcaact tgaaggctctg ttaacggtac ccatcaaaca 240  
 cgtcaaccct gtcctccac aactttctta agtcttcaat caaaggactt agataaacat 300  
 cgatatcatt tcctagttgt tttggacca aaatcatcat agacaactta atgtattttc 360  
 gcttcatgca caaccaaggt ggcagggtgt aaatcattag caaaataggc catgaattgt 420  
 agttagtgt taagttacta aaggattcat tccattggaa gaaagtccaa gcctaagggt 480  
 tcttgctac tttccaaatt gggaaacaca ccattaattg tctt 524

<210> 9323  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9323

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 aggctagtag ataagaccac tctagaataa tcaatattag agagcaattg cctaagatta 120  
 ttcactatat gcttgctcct cacttttgca cgtccttaaa cataatatat tgatatatca 180  
 aaaatactat tataataaat aacaagaata tcttaatata ggtaaaaaaa atactgtcat 240  
 gaaatcacat atataaatat ttgaaaaaat acaagggtgtt ttcattttgt gaaatcatca 300  
 tttatataaa catatacatt acatataaaa cttgtattat attcttactg tatacaacaa 360  
 gtttgaaata acgtgatgaa aatacatatg atcataaaat gtatactata taaaatagaa 420  
 taaagcttgt atagcacaca tatttcacta tatgcgaaat aaaagcgaag cttaatatgt 480  
 acttc 485

<210> 9324  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <400> 9324





gccaaatgag cctttagaat caacctatga gaagaatcaa atatttccat tgagtcatgt 180  
 ttcataatca atgaaaagcc tttcttaatt agttttccaa tactcaataa attgcatttc 240  
 tttcttggtg catatagtac attttctata agtggtgatt ttccattctt ccctttaagc 300  
 acaatattgc ctataccttt tgcactcaat gttctatcat ctggaaattg aactttgctt 360  
 gttcttggtg tatcaagatc actcaaccat tctttgtggg ttgtcatatg gtttgagcat 420  
 tcaatttcaa ggaaccaata cttagactgt gcaagattct cacaggtgg 469

<210> 9327  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 9327

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 atcgagacgc tcgtaattgg aaacagaagc tctgagcaaa ttcgaacgac aataaatttt 120  
 tactcggatg tccgaatgga tcccgtggta taacgtgacg ctgttaattg aaaatagaag 180  
 ctctgagctt attcaaacgg ctataacttt taactcgggt gtccgaacga gtctcgtagt 240  
 atattgagac gc 252

<210> 9328  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 9328

agcttctgtt ttcaatttcg agcgtttcgt tattttacgg ggctctatcc gacatccgag 60  
 ttaaaagtta ttgtcgtttg attattctaa gagcttcocct tttcaattac gagaatctcg 120  
 atatattacg ggacacaatc ggacaccoga gtgaaaagtt attgtcgctt gaattttctc 180  
 agagcttcta ttttcaatta cgagcgtctc gatatattac gggactcaat cggacattcg 240  
 agtaaaaagt tattgtcggt tgaattttct cagagcttct gttttcaatt acgagcgtcc 300  
 tgatatatta cgggactcaa tcggacatcc gaggcaaaag ttattgtcgg ttgaatatgc 360  
 tctgagcttc tgttttcaat tacgagcgtc tcgatatatt acggga 406

<210> 9329  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9329

agcttataat atatcgatac gctctaaata tttatcgaca acncncggga aaggcagaga 60  
 gtcataacaa tncacacgga cgcccgaacnc gggcgcanaa nanggcgaga ggagcgaaaag 120  
 cgaacaacgg aagcccngga gaaacccaac ggggagaacc caacacacgg agggccgaac 180  
 caggcgggag acagaacgag acacacaaaa ggggaacagcg gaagcccccg agaaacacaa 240  
 aggggcataa cacncaaccc gaaagaccaa gnnaggcgca tcacatatag tgacactcga 300  
 aattgaacaa cggaagctct cgtgaaattc aaatgggtcat aacttttcac actgagggtcc 360  
 gattcaagtg tataatgcat cgatacactc ggaagtaaac atcggaagca ctcg 414

<210> 9330  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<400> 9330

gcttcggttg ctcatgact tcaaattgct gcagagaagg acatacatct gtatggtgat 60  
 ctgcagaaga acatagacca cagagtcttg caacagggtgc agatttctga ttcattggcaa 120  
 gctgagttac taggttgacc aaggcatcaa gttttccctc aagattttta ttttcagtag 180  
 atgaagatga atccattgcc acctcatgga ctccctctaag gacaataggg atgcaatcct 240  
 accccgcaaa ggcattggat agaagactcc aagtagattg ggccagagat ccaagggaag 300  
 gccctagggt tctcatgagc cttaggatag atttttgagc ccatgggtca aggtatgatc 360  
 cactcttctt tgtaaaaatt agaatagggt tttccttctt ttgggccttg tattttgaca 420  
 attctagtag tatagggttt tagccttgta tttcagggca ttttgagtag tctttgtagt 480  
 aaagacttct tttgtatctt 499

<210> 9331  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 9331

agcttgtaat cgattacaca gtaaggaatt tttcaaaata actccaaga gtcacaactg 60  
ttcaggaagt ttttgaatgg ccatcaaagg cctttaaaga cttgggatac gaaattcctt 120  
agaggttttc tgaataacat tttcttatcc tctcaaaacc aaattgtctt atcattctca 180  
aaatattcct tgggtcaaac acttgcaa atcaataagga atcttgatcg atcttcaatt 240  
gtaatatcct tctcttaaag agagaaaatt cttcttcttc ttattcaaac agatctgtat 300  
aagagaccga gagtctcttc agttgtaagg atatttgaac acaaggaaag ggtgtccctg 360  
tgtggttcaa agtttgtaaa aagctttcta caagatagtg gaaatctcaa gcgggttgct 420  
tatggactgg a 431

<210> 9332

<211> 500

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9332

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ttgtttcaaa tgggtgatgg aaaagcttgt cacctaccag tggagttaga aataaaagct 120  
cattagacca tgaagttcct caactttgac ttacaacat ccaaagagaa gaggaaggta 180  
caactacagg aacttgaaga gattctctc aatgcatatg aatcatccaa gctctacaaa 240  
gaaagaacca agagatacca tgacaaaaag atcctccata gagtattcag gcccgaaaca 300  
caagtattgc tctacaactc aggattaaag ttatttcatg gaaaattaaa atatagatgg 360  
agtggccct atactgtcaa agacgttaag ccttatggag ctatagagat agaggatgtg 420  
acaccttcta cccctcacat atatatntat aaaggaataa aaatttcaat attaattaaa 480  
aggtttttta aaacattttt 500

<210> 9333

<211> 298

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9333

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aagttattgt caatgtgaat atactcaggg cttcagatct taattttgag cgtctcgata 120  
tattacagga ctcatcaga catccgagtg aaaagttatt gactgttgaa tttgatgcta 180  
gctccctgct gcaattggga gcatctatcg cataattatg acactttgtc gggcaatccg 240  
agacaaagct atagtcggta gaatgatata agagcattcg tctacaatat ggagcgtc 298

<210> 9334  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 9334

ttttactctc aatatattat atatcactta ttactattct cttttatagg tgttaaaatg 60  
gaattgaatt caacttgaaa ttataattta cactctaatt ctttacacaa ttatattaaa 120  
tttactatta caactacaat tttaaattga aattcctact cccattttta atattttctaa 180  
aaaccagttt tgggtgaaata gtaaagtgac tatttgcaac atagtcacat agtgctttat 240  
ttaattctat ctttgatctc atcaagaccc tagaggccta gtgttggcac ttaaaaaatt 300  
attatgaata gctgatgcaa atgcgaagaa gctaaaagtt aatatattca aattttatttt 360  
tgaattatat aattgtatca ttatttaaag attatgatct aaagaaaaca ggggtcatct 420  
gaagacagtg aacgattctc ttataatg 448

<210> 9335  
<211> 534  
<212> DNA  
<213> Glycine max

<400> 9335

agcttgcttc tacaatctcc cccattttgt tgatgactac ttctaaaatc aagaaacaca 60  
cacacacaca cacacacaca cactttttct agtcgatgac tcacataaat ttccattctc 120  
cccctttggt ttttgaattt atgcttgtct taaaattaag ttgattactc atgtgagtcc 180  
ttgatttaat ccctatttct ctcccccttt ggcacatcaaca aaaagccaaa atgcgtaaca 240  
agtttgaagc atacaaatac aactaagcat gcatacaaca ttcattggaag aatataaacc 300  
aaatcatgaa gcaagaacca taaatagatc aaatatataa aaaccacatt gtcaaataac 360

ataattaata tttgttcaaa cataccatgc aaataaagaa atagtaaatt gttcaaatat 420  
 cataataata tagccaaata cacggttgga aatcaaatta ctaataatat taaaataata 480  
 gaaaactaag atgatggtgg cggcggtggt ggtagatcaa agcttgaatg aata 534

<210> 9336  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9336

ctgggcgtac cccaaggac catcaggaaa ttacttgtgt gngtagccat gagggtgggc 60  
 tcatgggcca cgtttgggat agacaagacc cttgtcttac tcgaagaaaa gttctattgg 120  
 ccccatatga agaaagaggt ccataagcat tgcactatgt gtgtggcttg tttacaagcc 180  
 aagtctaggg tgatgcctca tgggctatac acacccttac ccattctatc tgcaccttgg 240  
 gtagacatta gtatggactt tgtccttggg ctgcctagaa cccaaggagg tggagactct 300  
 atctttgtag aggaggatat gtggagcaag atggcacact gtataccatg ccacaaggag 360  
 gatgatgctt cccatatctc aaaacatttt tt 392

<210> 9337  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9337

agctttccac attgaattca gcacctaattg ttatantata tgggaattgg gtatcttaac 60  
 ataagagatt tccgatggac tttaatccta atcccacagc cgaccttttt acgagatctc 120  
 tacttaaccc tttggttaaa tgatcggcc aattatgctg agttctcaca aactccactg 180  
 atatcacacc atgcatgatt aactcccga ccatgttgtg tctaacaccc aagtgtctag 240  
 acttcccatt atacacttga ctatatgcct tagccaaagt tgcttgacta tcacacctga 300  
 tagacatggg aggtataggt ttgggccaca atggaatctc atagattaga tttcttagcc 360  
 actcagcttc tttaccagct gctgctaaag ctacaaattc agattccatt gctgaatatg 420  
 gatgcaggtc tggttcttgg at 442

<210> 9338  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<400> 9338

tctaaacttt atacaagaat gaagctctga taccacttgt tgtacagtgg cctcagatat 60  
 cttaagaagg gggggggtga attaagatat tacaaattat tttcccaatt aaaaattcta 120  
 tttaactttc tattcaagtt atatatccc ttaataatga ttttcttaaa taatgattca 180  
 aaagaacaat ttgaatatga atataaaaca ataataaata aaggagttaa agggaagaga 240  
 aaatgcaaac tcagatttat actggttcag caacaccctt gtgcctacgt ccagtcccca 300  
 agcaaccgcg ttgagagttc cactatcttg tcaattcctt ttacaagttc taaacacaca 360  
 aggacaatcc ttcctttgtg tttagaatcc tttcacaaca agagaccatc ggctctctaa 420  
 tcccttttca gaataaagaa gaagagaaga agaaatctct cttgaaagag atagattg 478

<210> 9339  
 <211> 571  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9339

tgaatgttca gcaacaatcc ctgtcaacct atgagaaggt tttactagct gtggtgtttg 60  
 ctgtacaaaa gtggagcatt acttattact caagacgttt gtaatcaaaa ctgatcacag 120  
 aagtctcaag tatattcttg accagagact ttccacaact ttccaacaaa aatggtaggt 180  
 aaaacttatg cagtttgatt tcattattga atataagcag ggaagtaaaa accaagctgc 240  
 tgatgcactt tcaagagttg aatgtgctac tatttccact caccaaccgc attctgatct 300  
 actagagaga atcaaatcaa aacatcttgg caaggatgat atgccttaca aaaactgatt 360  
 gttgaagtta cgaaagatcc ttcttcacat aaggatttct cttgggttagg tggagaacta 420  
 aggaggaaaag gtgatgcaat cctacccgcg aagggcattg gatagaagac tccaagtaga 480  
 tgggtgctaga gatccaaggg aaggccctag ggttctcatg agccttangg tagattgagc 540  
 ccatgggcta agtatgagcc cgcttatctt t 571

<210> 9340  
 <211> 617  
 <212> DNA  
 <213> Glycine max

<400> 9340

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 tatcatcgat gtgaatctat tcctaaatta actaactagt aaggtgatac gagtaatttt 120  
 tgttgccctt tgtttctttc tagttctaac acaacttcta tcatgtcaaa tttacgtagt 180  
 attgattcac agtgtattta gaaacagtag aaaaagaagc actcatgttt aaaatgtaaa 240  
 aattatagtt gattattagc ttcttaaaat tatattttaga tgtgaagcca aacatatact 300  
 aaaaaaatg tagatttgct ttatatattta gtgagacca cattcagatt tttctaattt 360  
 ttttatccat aaaaatcaat gatggatata attagactaa aaagttgatt aatattttct 420  
 taaaaaataa aaatttgaaa caatatttga gaaagaacta gaactatagt ccttaaagta 480  
 ataaagtata tttttttttt atcactacac ctaagtactt attaaaatat ttgggcaaaa 540  
 taccatatta atataggttg taagcgaaaa tagtttaaat ttaattttgt taaattaatt 600  
 taatatatgg ataatta 617

<210> 9341  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<400> 9341

agcttgataa cccttcttga agagtatatt gatttctttg cgtggctcgca tcaagacatg 60  
 cccggtctgt attctgacat tatgcagcat aagttgcctt tgaatcctgg gtcttctccg 120  
 gctaagcaaa agctacgaag aatgaaaccc gatatgtctt taaaaattaa agaagaagta 180  
 aggaagcagt ttgatgcagg attcttagct gtggcacggt acccgagtg ggtggccaac 240  
 attgtcccag tcccgaaaaa ggacggcaag gttcgaatgt gtgtacacta ccgggacttg 300  
 aaccgagcca gtcctaaaga caattttccc ctgccacaca ttgatatact cgtagataat 360  
 atatccaaag tcaccctttt ctcatattat gatggcttct cggggataaa tcaaataaag 420  
 atggcccccg aagatgtaga gaagaccact ctcgtaaccc tatggcggac attgtgctat 480  
 agagtgatgg cccttgggct gaaaaatggt ggggcaccta atc 523

<210> 9342  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<400> 9342

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acctctctaa tagctagctc acctcctttt tatgagaagc tagagcttag ctacacacccc 60
cctataatag ctaagctcac ccccatgaca aaaaacatga aaataccaaa aaaaagtcct 120
tactacaaag actactcaaa atgcctcgaa atacaaggct aaaaccctat actactagaa 180
tagccaaaat acaaggccca aacgaaggaa atacctattc taatatttac aaagataagc 240
gggctcatat ttagcccatg ggctcgaaat ctaccctaag gctcatgaga accctagggc 300
cttcccttgg atctctagcc aatctacttg gagtcttcta cccaatgcc ttgcggggta 360
ggattgcatt acctcctctc atggggtagc caagttgtct tatggtagag acatgattat 420
aattaatata aacccttggt cacatcaagg gaacatttgg aaatccttcg catgaggata 480
ga 482
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<210> 9343  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9343

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acatgatgcy gtacatagag tgtaacgagt atccacaagg ggcttctggc aacgacaaga 120
ggatgttgca gaggttgga actagtttct ttctaagtgg gggatatcat atgtagctcc 180
attggagctt gttggccttg gatcttcttc atcaatggag tcctttgctt cttgaatttt 240
aatggcagca aaatggacaa gaagaagagt tgagaggaga caccacttca aggagaagat 300
gagtctagaa taagctcacc atcatagaa ggcattgata agagcttcaa ggtacgagat 360
gatgaatgga ggaacaggga gag 383
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<210> 9344  
 <211> 699  
 <212> DNA



<213> Glycine max

<400> 9344

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ggtgtagtaa gttggaaaag ttccaagcaa gctacgataa catattcaac tactgaagca 120  
taatatatag tgacaagtga agccggtaaa gaagctgttt ggatgaaaag gttcatattt 180  
gaacttggtg tgggttccttc aatagaagag tcgggtcccat tattgtgcga caataatggg 240  
gctattgctc aagcaaagga accaagatca caccaaaagt ccaaacatat tttgcgaaaag 300  
tatcacttga ttagagagat aaaagaacgt ggtgacgtta agattgaaaa ggtagatgga 360  
aaggagaatg tagcagatct cttcatcaag gcgcttgga taaaagagtt tgacaagcac 420  
aaatgggagt tatgattgaa gttcatgaat gattggctct aggaaagtgg gagatttgtg 480  
ggaataaatt tgtatgccta tgatccaagt catcatgtga tcaattctaa ttttaataat 540  
aaagtattat tttattttca tggatcatatt tcactatatg attaaatggt gcatttgata 600  
atgtccttgg ataaacatat agacttggtta ttataataga aattatgata atgagaaaca 660  
agtttgttct taatttaatc taaaccgttc ttgatcata 699

<210> 9345

<211> 606

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9345

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agcggttact aggatatcaa caaagtacac aattacaaat ttttcaataa attaaattat 120  
ctgaaaacac ggttcatgag tctcatgaaa gtgctaagca tattgattaa gtcaaatcac 180  
attactaacc actcataatc caaatactgt tttgtaaaac agtttgtttc tatttctata 240  
caagctaaac ttcttaagca ctttaacaca tttctagtgt aatacttaaa cacttcaaca 300  
cacttcta atgtgtctcagg tgattatcaa gatcatcatc aaatacacia cggtgagttt 360  
ttcaataaat tacctcaaaa catgattcat gagtctcatg anagtgctaa atatattggt 420  
taaatacaat cacattacta atcacgcgta atccaaatac tgtcttgtaa aacagttttt 480  
cactcatcac tttctcta atcaatttgg tggtagtcac aaaagtgatg catcaaatcg 540

ataaatactt atactcttac gggttgaaag ttgaaagttt aatcaaagt taactttttt 600  
 tttgga 606

<210> 9346  
 <211> 560  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9346

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 gtcttactgg attagctcca tcctctaaat ttattcgatg catacatgtg gatgggctaa 120  
 taccaggaat gtccgccagg gtccagccta tagccttctt atgcttcttg agcactgaca 180  
 acaacttctc ctcttgctca tcagcaaggg aggcagatat aatcactgga aaactcttgc 240  
 tatcatccaa gtaagcgtat tttaaatttg atggcagagg cttcaattct ggtgtggctg 300  
 gctggacagt ggtagaagga gatggtttct cagccttgac ctcataaaga aagtcagagg 360  
 tatgtgtact tcctgaaaca tggtagtcc tatctgactc tataaatcaa tctcaagagg 420  
 taaaacacca ccaccaggca tgcaatcaat atcactctca gattcactct caacatcaaa 480  
 ttcagacata tgatcaagtt ccattttcag actcaatgca ttgaagagtg agaggcatgc 540  
 agattataat aaagatcagt 560

<210> 9347  
 <211> 599  
 <212> DNA  
 <213> Glycine max

<400> 9347

tctaccaat ggaatttatg aaccgacatt tgaaagttaa ttgttctgta actaccaaga 60  
 gatggggttt ctttctttat gcaatggcat ttattgttg agaattcaca cgtgctagta 120  
 atgaatgaca ccatgtattt tgagaaacag ataaattctg acttacatat tctcttatgt 180  
 tgctaaattg caactgtttt attgatttgt cgaactaaat ttgagtcata tggtagaagt 240  
 attgaaaaag ttgcactacc tcagttttat ccttgataag aaatatccat gtcacatgag 300  
 agcaatcatc aatgtaagaa ttaaaccata aataaaggcg ggtccccaca cactgcaatg 360

gacaagaggg aaagtctcaa cacctttatt attactactt ggaaaatttg tacctgataa 420  
 tgggccggag agagcaagaa aatgatgact aactgcctat tatgcaatgt tgaggggagg 480  
 gttgcatgaa agcttgtgga aggcgagatt ataatcctag ggacccttac atttttgttt 540  
 gtgcattttg tataaagatt atatgcccatt atattgtttg agatggggct taataacttg 599

<210> 9348

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9348

ctacaacatt caacttcgag catctcgata tattacgagt cnttantaga catccgagta 60  
 aaaagttatt gtcgtttgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 120  
 atattacggg actcaatcag acatccgact aaaaagttgt tgcgtttga attcactcag 180  
 aggttcaaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccgag 240  
 taaaaagtta ttgtcgtttg aatttgctca gagcatcaac attgaatttc gagcgtctcg 300  
 atatgtgacg ggactgaatt agacatctga gtaaaaagtt attgtcgttt gaatttgctc 360  
 agagcatcaa cattcaattt cgagcgtctc gatatatgac gggactcaat catacatccc 420  
 agtaaaaa 428

<210> 9349

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9349

agctttgagc caattaagac gacaatatct ttttactcgg atgactgann gagncccgnc 60  
 atatatcgag acgctcgaaa ttgactgttg atgctctgag caaattcaaa cgacaataat 120  
 attttactcg gatgtttgat tgagtccgt aatatatcga gacgctcgaa attgaatggt 180  
 gatgctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttcagacccg 240  
 tcacatattg agacgctcga aaatgaatgt tgaagctctc ggccacttca aacgacaaca 300  
 acattttact cggatgtctg attgagtccc gtaacatata gagacgctcg aaattg 356

<210> 9350  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9350

gaccgcggct gcagctatct gatgtcaccg aaaaagttgg tatgtgncgg gcgaaaaaact 60  
 ncactaggtg tggtcagaca aaacagtcct agctaaaatt atcaatagat tatatgttta 120  
 aactattaaa aattgaacaa tattgttttag ttaatagttt aaaattagat tgtgtttggt 180  
 ttctatgaag cctaattatt aagtttcctc tattttaaatt ataaaattga aattttgcat 240  
 atggagaaaa ttgaattgcc ttatccaaac aaagaattta aaattgaaga aatttgaatt 300  
 gatttatcca aacaaagcat ttgaaaaatg aaggaaatta aaatcaaagc aattcaaatt 360  
 ctaagcattt gaaatttcct aaaactttta aattcctgat ccaaacacaa ggtaaaagta 420  
 ttgccaaatg tcaaaatctt attgagtagg aggatttacg tgattatgga ggatataaca 480  
 actctcttcc aaattttaat taagct 506

<210> 9351  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9351

gccgatacag tagagctgac cgcattgcaat ctacaagttg catagcgcct ttgaatttcg 60  
 tgatttgcca acaaancctt aactcgcctc tgctataatc cttcgaattt gaaccggag 120  
 ttaagtgcta tctgataccc gttgttgggg aaccgaagcg ggataaacat caaagagatt 180  
 tacaccaatg ggccatgagc aatcatataa gtaaacttga caccacacct taacccaaaa 240  
 ccttaaggct caagtttatg agttttttct tcaattatat ggtgttcaac cttctcattc 300  
 ctacacaatg tgagacttca cctcacactt gtactccaac ataccgacat atgcattctt 360  
 ataccaataa cttgcacttt agttaagtgt gccctcctaa ctaaaataat taccaactta 420  
 aaataggcac aactctgtaa taataaatc agcttaaata ttatttataa catcataacc 480  
 agcacaacga acaacaaatt gaaattacgg t 511

<210> 9352  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 9352

gctgcttgaa attgaacaac ggatgctatc cagaaactca aagggttatt acttatcaca 60  
 cggagggtccg agtgaggcgc ataatatatc gagatgctcg aaattaaact acgaatactc 120  
 tctagaaatt caaatggctcg taacttgtca cacggaagtt cgattcaggc gcattatata 180  
 tcgagacgct cgaaattgaa aatcgggaagc tgtcgagaaa ttcaaattgt cgtaactttt 240  
 caaacggaag tccgatttag gcgcataata tatcgagaag gttgaaattg aacgacgact 300  
 gctctcgaga aattttaaact ggtcataact gttcaaacgg aagtccgatt caggcgctta 360  
 atatatcgac acgcttgaag 380

<210> 9353  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 9353

agcttgctgt cacggagata nccgactttg cttttgngng gnggaacaag ccacgaaagg 60  
 agagagcaag aaangaagag ccaatggngg acacatggac agagatgaaa aagatcatga 120  
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaaactaa 180  
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaattgt ttgactaatg 300  
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcccaaag 360  
 caatccaagt ggagcaacaa ttaaaaagga agggagtggc taagaagaag tttaccaact 420  
 ttggttcttc tagttgaaa gaaaaggtaa gaaagatggg gctgctactt ctagaattcc 480  
 acac 484

<210> 9354  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<400> 9354

cgacactata aatctcagct cttatccagg ctcatcttgg tggatgaagct cctttttctt 60  
ggcttattcc ctagtggatg gcgcctccct tctctcttcc tcctttgcct tccgctgcat 120  
ctccatggtg aaaaatcacc attgaaggac ctcatgaag ctcaaagatc cagcctccat 180  
agaagctcca caagcaagct tccatcagtt atgaccattt gaatttttctg agagcttccg 240  
ttgttcaatt tcgagcgtca cgatatatta tgaccccgaa tcggacatcc gtgtgaaaag 300  
ttatgaccat ttgaatgtct cgagagcctc cgttgttcaa tatagagcgc ctcgatatat 360  
tatgcgccta aatcgcacat ccgactcaaa ggttatgacc atttgaatat ctcgagggca 420  
tccaaatttt aatttcgaag gtctcgatat attatgtctc aaaataggac atctatttga 480  
aaacatacgc ccctttaaat gtatcgaga 509

<210> 9355

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9355

agcttgaaat ataacaatgg aagcttcgtg natthttcaaa tggncctatc ttctcaaacg 60  
gatgtttgat ttggacacat aatatatcga gacgctagaa attgaacgat tgaacctctc 120  
gagaaattca attggtcata acgtttcaca cggatgtccg attcggggcg attatatatc 180  
gtgacgttcg aaattgaaca atggaacctc ttgagatatt taaatgggtca taactattca 240  
cacgaatgtc cgattcaggg acttaatata tcgagacgtt cgaaattcaa gaacggaacc 300  
tctcgtgaaa ttcatatggg aataactttt cacatggatg tccgattcag gcggataata 360  
tattgtgacg ctcgaaatat aacaacggaa cttttcgaga aattcaaattg gtcctatctt 420  
ctcgaatgta caattctggg acataatata tcgagacgc 459

<210> 9356

<211> 284

<212> DNA

<213> Glycine max

<400> 9356

agcttgtagg gttaaagtct cacgaatttc acgtgctgat gcaacaattg ttagccgtgg 60  
ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgctg tgcttttct 120  
tccatgctat atgtagcaaa gtcattgatt cagtcaagtt tgatgagttg gaaaatgagg 180  
ccacaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tatgcatctg gtcagagaaa tcaaatgttg tgggt 284

<210> 9357  
<211> 585  
<212> DNA  
<213> Glycine max

<400> 9357

tcaaccaagg ggagatggac catttcaagt gcttgatta ttataacaa tgcttacaaa 60  
ggtagctgc ccggtgagta taatgttagt tccaccttca atgtctctga tttatctctt 120  
tttgatgcag atggagaatt cgatttgagg acaaatcctt ctcaagaggg agagaatgat 180  
gaggacatgt tcaagagcaa gggcaaggat ccacttgaag gacttgtagg acctatgaca 240  
agggctagag caaggaaagc caaggaagct ctccaacaag tgetgtgcat actatttgaa 300  
tacaagccca agtttcaagg agaaaagtcc aaggttgatg gttgtatcat ggcccaaatg 360  
gaggaggact aaatgacacc actttgtctc acttttagag tgattagttt gtctaaataa 420  
tggcccaatc cttgtaaaga tggctaacca aaaatatgtt ttgggttaat caactaaaag 480  
ggctttaatt atgttttagt caaagtgtaa taagggccca attggcaacc tatgcatcag 540  
ccttttttga gaccaaagg tggctgactt gttggatgtt ggggg 585

<210> 9358  
<211> 586  
<212> DNA  
<213> Glycine max

<400> 9358

tcctagaatc aagatcaaga ttcaagaatc aagagattat ttaatcaaga taagtatgaa 60  
aaagtttttt caaaaactga gtagcacatg gatttttctc aaaatctgtt tacciaagag 120  
tttttactct ctggtaatcg attaccagat tattgtaatc gattaccagt agcaaaatgg 180  
ttttcaaaaa gctttcgact gaatttacia cgttccaatt gatttcaaaa agttgtaatc 240

gattacaatg ttttggtaat cgattaccag tatgcttgaa cgttgaaatt caaattcaat 300  
 tgtgaagagt cacattcttt cacaaaaaaaa gctttgtgta atcgattaca ctgatttggt 360  
 aatcgattac cagtgaaggt ttctgaacaa atcaaaagat gtaacccttc aaatagtttt 420  
 ttgactcttt taaattgggt ttaagtttgt ctaaaagtca taactcttct aatggttctc 480  
 ttgaccagac atgaaaaatc tataaaaagca aggctttggt ttgcatttca catctatccc 540  
 atcaatcaat ctatacatctt tatcttttcc aaatcattct ttacac 586

<210> 9359  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <400> 9359

ctccgcttga aactgttaag aaggttcgct ttcaaacctt tggtgttggt caacataaac 60  
 ttcctcttag attaagccat ttagaaatgt gttttttaca tccatttgat atagcttcat 120  
 attgctataa gcttcaaatg aaagtaagat gtgtattgcc tctaaatgag ctacagggtgc 180  
 ataagtttct ttgtagtcta ttccttcttg ttgtgagtat tcttttagcaa ctaaccttgc 240  
 tttgtttttc acaacctttc aattttcatt cagtttggtt tgaaagactc atttctctcc 300  
 aatagctttc tttctttttg gaaattcgac tgactttcaa acatcattcc tctgaaactg 360  
 atcaagctac ttttgcattg ctttaaccca attgtcatcc tgcattacat catcaatgtg 420  
 tttgggtttc atttttagaaa tcaatgcaat aggtccttat gttctgagtg atgatcttgt 480  
 ttgaacatga tcaactatat caccaataat ttgacttttt tggaggattt cttctcatga 540  
 tgcattcagt gggttctctt acctct 566

<210> 9360  
 <211> 534  
 <212> DNA  
 <213> Glycine max  
 <400> 9360

tgccttgccc cttgatatat ttgagggact catgggtttt attaatgaca aattccttgg 60  
 gataaaggta gtgttgccat gttttcaaag cacgtactaa ggcatacaac tccttatcat 120  
 aagttgaata gttaagggtg ggaccactta acttttctact aaaataagca attggatggc 180



cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240  
 atttttgaaa gtttggcaat gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360  
 tgagaggtgc tgccaatgtg ctaaaatcct teacaaatcg tctataaaaa cttgctaagc 420  
 catgaaaact cctcacctcg gtcacagact taggtgtagg ccattcttga ataactactaa 480  
 acctcttctc atccacttgc actccttttg aactcccaac aaaccctgaa acac 534

<210> 9361  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 9361

agcttaagct ccttcaactg ttaaggtgct taatatttga agagtatcct tgcggaacct 60  
 tcacccgacg aatacactga caaaaactta tcttctcctt tttggacaaa gtatggcaag 120  
 ctaggggcaa gttaaattttc ttcccatcag acattggatg caactgtgat cgtatcccca 180  
 tataagctag atcttgacgg gtattcaagc catccttcgt cttgccttga atgttaagga 240  
 gcgccccaat cacactgaca caaacatttt tctacacatg cataacatca ctaccatgtc 300  
 taacgtctag atcaaaccag cacagaagaa ctacgaatat ggacctcttc ttccatatgc 360  
 aagacttact t 371

<210> 9362  
 <211> 202  
 <212> DNA  
 <213> Glycine max

<400> 9362

cagcctatgc cgcaaacaac ttctactttt tttctcaaac tcaatagaaa aaacggccgc 60  
 cacaaaacgc ttatgacctc tccaacaaca ggtacaaccc cgggtagagg aaacatccca 120  
 accttaaagt ggtgagttct tccaatagc cacaacgacc ccaggcctat ttttataatg 180  
 ctgatggccc aagcagacca ta 202

<210> 9363  
 <211> 449  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9363

ngccttgccc ctcgatatta ttgagggact catggttact attaatgaca aattccttgg 60  
gataaaggta gtgttgccat gttttcaaag cacgtactaa ggcatacaac tccttatcat 120  
aagttgaata gttaagggtta ggaccactta actttttcact aaaataagca attggatggc 180  
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaaag 240  
atttttgaaa gtttggcaat gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcatttcat 360  
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaaa cttgctaagc 420  
catgaaaact cctcacctcg gtcacagac 449

<210> 9364

<211> 295

<212> DNA

<213> Glycine max

<400> 9364

aaattattca atcctacccc gcaagggcat tggctagaag actccaagta gattgggcta 60  
taaatccaag gaaaggccct aaggttctca tgagccttaa ggtagatttc gagcccatgg 120  
gctaagtatg agcccgctta tctttgtaaa tattaataaata agttattcct tcgtctaggc 180  
cttgtatttt ggccattcta gtagtataag gttttaacct tgtatttcgg ggcattttga 240  
actgtgtttg aaataaagac tctttttttg tattttcatg tttttgtca tgggg 295

<210> 9365

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9365

tgggcctttca ctatgtgttg aaatgagtga gccaaacttg aattgagttg aacacataag 60  
gcttgagttt gactaattat ctctaattag cttaactttg gcatacataa cagtctagct 120  
tggcgagtct aattaaaagc ttgcttaaag acgtctttga tcaattaatt attttaaaat 180

ctagtgaat actaactaaa aaaaagaaac ttattaaatt taatatgagt aatgtacaaa 240  
 tccaaaaata attgataaac aaatcatat tgaattcaag tcgttttaaata accaagaata 300  
 taataaaaat gaaanaaaga gagcatatta ttaaaaaata cttacaaaga ca 352

<210> 9366  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9366

ngacccttat gagtaagctt ggccaaaggt aaagctatct tacaaaaacc ttctatgaac 60  
 ctacgatagt aacctgttaa accaaggaaa ctctaatct caaacactta cttaggactc 120  
 ttccaactta tcacttcttc taccttaaaa ggatctactg atatccctcc cttggatata 180  
 acgtggccta gaaagctcac ctcttctagc caaaaactca catttggaca acttagcata 240  
 caattcggtg tccttgacaa ttgcaacac aaccttaga tgctctcat gttcctccct 300  
 agtcttgga tacaccaaga tatcatccat gaagaccacc aaaaaactat ctaggtaggg 360  
 atgaaagatc ctattcatgt agttcatgaa cacttgacg atgttggtca caccaaaaagg 420  
 cataaccaag tactcataat ggtcg 445

<210> 9367  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <400> 9367

ggcttctgca caaggggtcaa tggtagctag acacatgatg ctctacacac atgactggtc 60  
 acaaagactg gttcgtgtgt ctagatgaaa gaatgaaaag caaagtgaga tttgtaaatg 120  
 acagcactat gcttgctgaa ggaattggaa atgtctgat tcataggaaa gatggtagag 180  
 aaacttgcac agaggatgta ctttatgttc caagcataag cagcaatctt ctaagccttg 240  
 gtcagttact tcagaaaggc tttaagataa ctatgaagga catgatgatg ctggtatatg 300  
 acaaaaccag aaatctaata ataaaaacac cattgaccga aaatagaact ttcaagggtg 360  
 gaacgcaagc acttgagcat gaatgtctt 389

<210> 9368  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 9368

tcctccacat gagtttattg cccgaaggct tgaaattatt cagatatect cattttctgt 60  
 tttagaagggt gctgggagaa cccctcaaagg tagggatctt atcaaagtga ggaatgttgt 120  
 actcccaaaa attggtttcc tcgaaacact ataaaggggt ctcttgagta gtgatgtatc 180  
 tttatggtaa aacataatca attaattttt catggtgaag gtaaaaacaa aaaatagttg 240  
 cttctacttt tttatgggat cacctaattt tatgcatag aattgattct tatgtgtcat 300  
 ccaaacatga tagtagctct tttacatttg ggatgtataa tagggtttgt agttagagggt 360  
 tatttaagaa tggatgttgt gttcatatg 389

<210> 9369  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9369

ctagtacgcg taaagtctca cgattgtcac ttgctcatgc aacaattttt agccttggct 60  
 atacgagaca tctngccaaa caaagttagg ttagcgataa ctgcgatgtg ctttttctat 120  
 catgctatat gtagcaaagt cattgatcct atcaagtatg atgaagtgga aaatgaggcc 180  
 gcaattatac tgtgccagtt ggagatgtat tttccccctg ctttatttga catcatgatt 240  
 cacttgattg tgtatctggc cagagaaatc acatgctgtg gtcctattta tctacggtgg 300  
 atgtacccgg ttgagcgata catgaagatc ttaaagggtg tacaagaatc tattagccag 360  
 aagcattatt 370

<210> 9370  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9370

agcttatttt gagacccatg aatngattgt ctaacgcatg tcatgcgtcc ttcaccatcg 60

agtctaaagc cccatggatt gattgtctaa cgttgttcgt ctatcctcca ccctcanatc 120  
 ttattcggag acccatgaat tgattgccta gcgcagttca tgcgtcctca accatcaagt 180  
 ctggagcccc acgaattgat tgcctagcgt tgttcatcta tctccacccc tcaaatttta 240  
 tttggagacc catgaattca ttgccctgct cggtttatgc gtccctacacc atcgagtctg 300  
 gagccccacg aattgattgc ctacgcttgt accctatact ccacctcaaa tctaattctga 360  
 gaccatgaat tgatacctag cgctgttat 389

<210> 9371  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 9371

aacttagcat ctctatctaa cacaatggtc ctaggcaaac catgcggtct cacaacttcc 60  
 ctaataaaga gttttgagat gtgggaagca tcatccacct tgtggcatgg tctaaagtgt 120  
 gccatcttga taaacctatc caccaccaca aagatagagt ctacacctct ttgggatcta 180  
 ggaagcccaa ggacaaagtc cataactaatg tctacccaac gtgcataagg gatgggtaag 240  
 ggtgtgtata gcccattgagg catcaccta gacttggctt gtaaacaagc cacacaccta 300  
 atgcaatgct tatggacatc tttctttata t 331

<210> 9372  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 9372

ttcttatcca aggetcatct tgggtggcgaa gtccttctt ccatggctta ttccttagtg 60  
 gatgggcgct cccttctcct cttctccttt gccttcgct gcattctcat ggtgaaaaat 120  
 caccattgaa ggacctcatt gaagctcaaa gatccagcct ccatagaagc tccacaagca 180  
 agcttccatc agttatgacc atttgaattt ttcgagagct tccgttggtc aatttcgagc 240  
 gtcacgatat attatgaccc cgaatcggac atccgtgtga aaagttatga ccatttgaat 300  
 ttctcgagag cctccgttgt tcaattttaga gcgcctcgat atattatgcg cctaaat 357

<210> 9373  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 9373

gctgcagctt gaaccaacat ggaagctgct taaattcaaa tggccttctt ctgcacggag 60  
 tttgatttgg acacataata tatcgagacg ctagaaattg aacgattgaa cctctcgaga 120  
 aattcaattg gtcataacgt ttcacacgga tgtccgattc gggcgcatta tatatcgtga 180  
 cgttcgaaat tgaacaatgg aacctctcga gatattttaa tggtcataac tattcacacg 240  
 aatgtccgat tcagggactt aatatatcga gacgttcgaa attcaagaac ggaacctctc 300  
 gtgaaattca tatggtaata acttttcaca tggatgtccg attcacgcgg ataatatatc 360  
 gtgacgctcg aaatataac 379

<210> 9374  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9374

ntaactcgga tgtccgattc aggcgcataa tatatttata cacttgatat tgaataacag 60  
 aagctctcga gaaattcaaa tggtcataac ttttcacacg gatgtccgat tcgggcgcat 120  
 aatatgtcga gacgctctaa attgaacaac tgaagctctc tagaaattct aatggtcatt 180  
 acttttctact cagaggaccg attcaggcgc ataatatatt cagacgctcg atattgaaca 240  
 acggaagctc ccgataaatt tatatgggct tacttttaac tcagaggtcc gattcatgcg 300  
 cataatatat ctatacg 317

<210> 9375  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9375

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 tggcatctgc ggctgggcca catgagtga aaagggttgc atattataag gtagcgaggt 120

tttcttgga atcacaaggt ggaagctctt cagctttgtg tggatttgt ctatgggaag 180  
tagcatcaaa cgacgttccc aaaagttgtg cacacaacaa aagccatgtt ggattacgtc 240  
cattctaact actgggggct ttcaagagtt ccatcactat gaggagcaag gtatttcctt 300  
tccatcatcg atgattactc taagatgaaa tgagtattca tgatgaagca aatatttgaa 360  
gttttcaaac ttttctaaca ttgaagattc ttatgtagag tcagacaggt tagacaataa 420  
agcatcttat gagtgacaat g 441

<210> 9376  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 9376

tatggatggt atgagttgtg atcacccct tgcaattaac aaaaagattg ctaattgact 60  
ggcagtttaa aaatattaaa atattgctcc attttgttct tgttattctt tgagttccac 120  
acaagatgga gattaagggt gactgatgat tgtgcttttc catctggagc ttattaatta 180  
atgtattctc atctgctgtg tttttagga gatgttgaag ttttgaagga ccctgagaag 240  
ccagataact ccctagccag aagattaact gcaattgaag gatatgaaat ggtttctatt 300  
gattaaaagg atgaaccctt tattctgaga aggatcaatg ctgggtagtg actgaaaatg 360  
aaaaatagaa aaccaacgta aaatctgctt accttttgga tccctacggg gatcattatg 420  
cactt 425

<210> 9377  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 9377

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gcacttctga agtttgaatg taagtcacgc aagtgtgatc cctctttatt tgtctactcc 120  
aaggggtcct caacaacctt tatgcttgtt tatgtagatg atatcatcat aacagggat 180  
aatccttcct taatcaagca actcatctct aagctaaata cttttttctt tcttaaagat 240  
cttggttctc tagactatct cttgggaatt gaggtaaaac atcaatctga tggatctatt 300

gttctcactc aaggaagata cattatagac ttgctggcct aaactaatat gacagaagca 360  
 aaacctatatt cttcacctat ggttactgga tgtaagctaa ctaatagtgg atctgatcca 420  
 ctactgacat catatatgtt c 441

<210> 9378  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 9378

gcttggagtt ccaaggccat tcgcttcttt tatttcagtc ttcttctggc ttcaattctt 60  
 cagtgggctt tccttctgtg tccagcatct tgggatgttc ccagcctttg atgacagctt 120  
 ttcaaggttc ttgctatcca agtgatcttg aggaaggcca ccaattcttg ctttccagta 180  
 ttcataagtg gttccatcta ggaatggtgg tctagtact ggtcctcctt ctttctccat 240  
 gttcatcaga cattatctcc ctagaactca ctctgtgatt tcgagtgttg gctctgatac 300  
 caatcgaaat tctgatacca ggggacagat gttctaccgg atgttacgac attacccttc 360  
 agatcatgca aatatat 377

<210> 9379  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 9379

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 cctctaaatt tattcgatgc atacatgtgg atgggctaata accaggaatg tccgccaggg 120  
 tccagcctat agccttttcta tgcttcttga gaactgacaa caacttctcc tcttgctcat 180  
 cagcaaggga ggccgatatt atcactgaaa actcttgcta tcattcaagt aagcatatct 240  
 taaatttgat ggcagaagct ttaattctgg tgtgggtccgc tgga 284

<210> 9380  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 9380



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agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120  
acaccccta taatagctaa gtcaccccc atgacaaaat atatgaaaat acaaaaaaaaa 180  
tctctactac aaagactact caaaatgcct cgaaatacaa ggctaaaacc ctatactact 240  
agaatggcca aaatacaagg cccaaatgaa ggaaaaacct attctaatat ttacaaagat 300  
aagcgggctc atacttagcc catgggctca aaatctaccc taaggctcat gagaacccta 360  
gggccttccc ttggatctct agcctaactc acttggagtc ttctacccaa tgccttgcg 420  
gggtaggatt gcatcaagcc acaactcagc a 451

<210> 9381  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9381

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tttagaagggt gctgggagaa ccctcaaagg tagggatctt agcaaagtga ggaatgttgt 120  
actcccaaaa attggtttcc tcgaaacact ataaaggggt ctcttgagta gtgatgtatc 180  
tttatggtaa aacataatca attaatTTTT catggtgaag gtaaaaacaa aaaatagttg 240  
cttctacttt ttatatggtat cacctaattn tatgcatag aattgattct tatgtgtcat 300  
ccaaacatga tagtagctct ttacattng ngatgtataa tanggtttgt agttagaggt 360  
tatttangaa tggatgttgt gttcatatgc ttgggggtata aa 402

<210> 9382  
<211> 447  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9382

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ttcaagatca agcatcatga atgcaatcca atccaagatt caagattcaa gaaaagaaat 120  
caagaagcaa caagtcaaga cttcatatag gataagtatt aaaagaattt tttaaaaacc 180

aaatagcata attttgtttt acaaaaagaat tttgtcaaatt tttctaaagt gaccagagtg 240  
 attactcttt gttaatcgat taccagtttag cagtagtcga ttactagtaa ccagattggg 300  
 tttcaaaatg ttttcaaag atgtgtaaca ttcaaaaatg attttcaaatt agtgtaaatcg 360  
 attacactat attagtaatc gattacaagt gaattctaac gttggaattc aaatccaatg 420  
 gtgaagagtc acaacttttc ataaaaat 447

<210> 9383  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 9383

tcttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatttc 120  
 tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actaagtcct tcataaaaat attggagaag aagctgttct gaaatctgat 240  
 ggtgggggca actggcacat agtttcttaa atctctccca gtactcatac aggctctctc 300  
 cactgagtta tctaatacct gagatatacct tcttgatggc tg 342

<210> 9384  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9384

tgaaattgaa caacggaagc tctctataca ttttaatggg cataacttnt cacttggagg 60  
 tacaattcac gcgcataata tatcgagacg ctcaaaattg aacaacgaaa gctctcgaga 120  
 cattcaaagc atcataactt ttcacatgga cgtcagattc aagcgcataa tatatcgaga 180  
 tgctctatat tgaacaatgg aagctctcga cacattcaaa tggtcataac ttttactcgc 240  
 gaggtccgat tcatgtgcat aatatatcga gacgctcgaa attgtacaat ggaagctctt 300  
 gagcaattca aatgggctat accttttcac ttcggatgcc cgattca 347

<210> 9385

<211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9385

ntaaagacca attaaaggaa ataggagtgt ggatgtgtat tacaaacaga tgaagatttc 60  
 cttgattagg gctcaaattg aagagtctca tgaggccacc atggcaagg ttttgcattg 120  
 tctctatagg gagatccaag acattgtata gttgcaccac tatgcctctt tggaggatct 180  
 cattcatcaa gctatcaagg tggagcaaca attaaaggagg aagcaaaca acaagaagtc 240  
 ctctatggc tttccaactt agaaagataa ggagacattc aagaaggagg gaagaccttc 300  
 attcaaact catgaaaaag gtgttgcctt tggtaaaaaa ataattctaa cctactccc 360  
 acttcttcaa aggcgagttc tattaatat 388

<210> 9386  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 9386

gacctctatt tatagcccac gcgtcacaga aaaatggagg gaatattgaa ttttctattt 60  
 aaacttcact tgaattaaaa attgaattta tggggccaaa tttcggagcc aaaatttcac 120  
 ttattatgat tcgggaattt tagctatggc tcaaccact agtccaagat ctagtccaag 180  
 attctccact aagtgtgctt aggtgtcata agacatgtaa agcatgaagt ttatgcacac 240  
 agtgtgacta tatgatgtgg caatggagtg t 271

<210> 9387  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 9387

tgtagggtta aagtctcacg attgtcacgt gctcatgcaa caattgttag ccgtggctat 60  
 acgagatatc ttgccaaaca aagtcagggtt agcgataact cgctgtgct ttttcttcca 120  
 tgctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgtcagttgg agatgtattt tccccctgct ttctttgaca tcatgattca 240

cttgattgtg catctggtaa gagaaatcaa atgtcgtggt cctgtctatc tacggtggat 300  
 gtacccgatt gagcgataca tgaagatctt aaaaggggat acaaagaatc tatattgtcc 360  
 agaagcatct attgttgaga ggtacattgc agaagaagcc tttgattttt gttaaatact 420

<210> 9388  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9388

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 gagtctaatt ctattcctcc aagaaaggat attttagatg atattgcaga atcttttagaa 120  
 caaatgcata tttatggaca agattctaaa ggaaaaggaa gcaatgaaga tcctccagta 180  
 gaagccaaat caaatgatga acttctgaga gaatggaaag cttcaagaga tcatccccctt 240  
 gacaacatta ttggtgatat ctcaaaaggg gtaacaccta gacattctct taaagatnta 300  
 tgcaataata tggcttttgt gtgtatgatt gaacctaaaa atntaagtga agccataata 360  
 gatgatcatt ggatagtttc tatgcaagaa gaactaaatc agtttgagag aaataatgtg 420  
 tgtgaactag tagagaaacc tgaaaact 448

<210> 9389  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <400> 9389

tctcgatata ttatgcgcct gaatcagact tccgtttcaa aagttatgac catatgaatt 60  
 tctcgatata ttatgcgcct taatcggact ttcgtgtgac aagttatgtc catttgaatt 120  
 tctcgatagc attcgttggt caatttcgag cgtctcgata tattatgcgc ctgaatcgga 180  
 cttccgtgtg acaagttatg accatttgaa tttttcgaga gcatccgttg ttagatttcg 240  
 agtttctcga tatattatgc gcctgaatcg gacatccgtg tgacaagtta tggccatatt 300  
 aatctctcca gagcatccgt tgctcaattt cgagcgtctc gatataatct gcgcgttaat 360  
 cgaacttccg tgtgacaagt tatgac 386

<210> 9390  
 <211> 202  
 <212> DNA  
 <213> Glycine max

<400> 9390

agctttctcta tatattatgt gcctgaattt gacttgcgtt tgaaaaatta ttaccatttg 60  
 aattttctcca gagctttggc tgttcatttc gagtgtctcg atatattatg cgctgaatc 120  
 ggacttttgt gtgacaagtt atgaacattc gaatttctcg agacctttct gttttcaagt 180  
 tagagcgctc taatatgtga tg 202

<210> 9391  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9391

cgtttccctat cctatcggtc cactgcactt tcctttttct attatgtctt atctgatttc 60  
 cgtgcaattc ctctttttcg cactggcaac aaagaattgg aatcactctc atcttctcta 120  
 ttgctatgat cttcaacctt tctgccctct aaagaagcca ctgtcagagt cacagtcaca 180  
 gccatagget tgtttatgca gccattagta tccttggttg actttntagt atccatcaat 240  
 aataacaaca ctctttatgc tctctctctc tctctctggt acgttttccg tggcagaccg 300  
 aagtagaaaa aacgaaaatt cacggaaatt aatgaactgg aagaatacca tttgacccat 360  
 tgacctgaaa atcacagcgc aag 383

<210> 9392  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9392

tgctcttcac ggcaaacatg atagcactgg catgttctgc agcattttct acaattggaa 60  
 gcaagatgac agaaataaaa gccactgaca tattcaatga ctcatatgct ccctgcaaga 120  
 gaccagaaac acaatgtcaa tgaatgaact tatgatgcag aatttatgga taataggaat 180

attgtgaatg tatgaataca gagttttgat gatgtcaaag taaaatcaaa caaggttggt 240  
tcaacaaaca ttattgcttt aagattaatt caagggtcaaa caaataagat caagaaaaag 300  
ataagggtctc aaataatctc actgggtgat ngatttttgc cttaaaacaa attgtttcca 360  
agagatcaaa ggctctagta ttcgattact aggcaatgta atcgattacc aggagacaag 420  
tttaccaa at caacttttaa aaa 443

<210> 9393  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 9393

agctttgatt tcttggaaact gctcctcact ctcatcaaca agaccagcgg agcagtatac 60  
gcttaacacc acttcaagtg tcagctcatt aggttcacaa tttgcttttt ccatttcaac 120  
ataagatfff acagcctctt catactgacc ttcttgccca aaagctttga tcacaccatt 180  
gaatgaatgc acatcccggt ttaaaccaga ctcatcctc ctggataaaa ttgcttctgc 240  
ttctttgtac agtccccccc ttgcaaagtc atgaatgaat gaattgtagg tctcaacagt 300  
tgggttgctt ccaacttcat tcatagtgtt aaacacaaca agagcctctt catacagtgc 360  
agcctgcccc aacgctcctc acccagta 388

<210> 9394  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 9394

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tcaagggtgat ggactcaca tttttcggat tctgcacagt ttgtgaaggc aatttgtcag 120  
aattctggga ctgagcttgg ttcatctgag tagccatctg ccccatctga tttgtcagac 180  
tctgaataga agctcttgct tcttgctgaa attgcatatt ctggatgggc atttgcctca 240  
ctaactcttc taaggaaggt tgaggagggg ccttagttgc ttgttgtctt tgttgttgtt 300  
gctactgctg ctactgtaat ggaggaagaa catatggctt gcttggacca gcaacatttt 360

<210> 9395

<211> 425  
 <212> DNA  
 <213> Glycine max

<400> 9395

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gtgggagggtc tggacttgac atccgaactg acattcatgg ctgattctgt ctgcctcgag 60
cttcagagtg ggaatgccag catcagcact tatgatgcgg atgaattggg cgtctgagtg 120
aagcggatgg ccatacgagt gatgccatat cttgactgca tcattctttg aggatagaca 180
tgtggtggag ctgctgggga catggggtgt acataggttg gaagtgtaca ttgatctggt 240
gccctcaagt agaacttcac tcttctcatt atgtaccgag cctgctgact acgtgaaggt 300
gacatggtat gcttcatgac acagctgaca gatgctgatg aagattgcag acagacccta 360
taccaacagg gcttggatca gactacgaag tocatcatga gcgtgctttg ccattgcaat 420
gacct 425
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<210> 9396  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 9396

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agctttccat tttatagcta cagaatgtta atgatgtcat ggatgcaatt caagccaacc 60
taaagaaaaa agaacagatt gaggagcttg tcttggagtg ggataatgac ccacaagatt 120
cgcaaattgc caaagatgta cttcaaaaact tgcaaccatc aacaaattaa agaaactcaa 180
cattagatcc tatggcggca caatctttcc aaaatgggta agtgattctt caaattccaa 240
tggtataacc cttgtcatca ctgattggaa ttattgttgg tcactttcac catttggtca 300
attaccttct ctttaaggagc ttgtcattat gaggatgcac atggtgaatg gtatagggtca 360
tgaaatctac t 371
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<210> 9397  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9397

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nttaagaaga caatttccaa tcatgctatc ctatgcaatg actattaaca agtctcaagg 60
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ccaatcactt tctatagttg aactttaatg gccaaaacca gtttttagcc atggacaatt 120  
 atacgttgca ttatcaaggg tcaattcaag gcaaggatta aaagttctta ttcattgataa 180  
 agagcaaaaa aatatgactt ctactactaa tgtagtcttc aaagagggtt tcaaaaatct 240  
 tacaaggtaa ctctaaattt tcaaacaaca aattgtacta tctattgaca acaattccta 300  
 actgttatct tactcttata cattctaaca tacagccaaa gatgatataca tatattacaa 360  
 tgttaaattt tacattgtca ggtatgtaat cttaatcacc acattaatat catccattta 420  
 taatttca 428

<210> 9398  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9398

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 ggatcaactt gaaacttatg tgcttcaagt gagaagaaat gcttcttttt ccacttgtga 120  
 agatgttcaa agtttggcta tgaagatggt tcagactgag aaacatttgg tatttccatt 180  
 ggtttataaaa cttattgagc tagctntgat attgccggtg tcgacagcat ccgttgaaag 240  
 agcttttttca tcaatgaaga ttatcaagtc taaattgcgc aataagatca acgatgtgtg 300  
 gttcaatgac ttgactggat gttacaccga gcggcacata tt 342

<210> 9399  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9399

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 tttgcctttt ttgcgagctt cgggaggaac ttggacaaag acgctagtct accatttagc 120  
 tnttgaactt ctctgatgtt agtaaggcta tgtatttcta gtattgcagt acatttgtca 180  
 aggttagctt cgattcccca gtaggtgatc atgaagccca aaaaaatttt gtcgctgatc 240  
 ccaaagggtgc acttctcaag attgagatgc atgtcatact tgctagtctc tccgaacact 300



tccttcaaat ctgctacatg ttaagctatg ctgtgagact tgacaaccat gtcattccaca 360  
tagactttga catttctgcc tattnttcat ttgaagaccc agtccatgag ccttttgtat 420  
gtagctttct cattc 435

<210> 9400  
<211> 229  
<212> DNA  
<213> Glycine max

<400> 9400

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gttgacagccc agatacgcac actgctatat aaacatgaat gctgcacgag ttttccacca 120  
agtccgggat tgaagagtta ttttgtgagt tttgggactt gagtgttttg tgagccacct 180  
tgatgttacc ctaacatcaa gcgttgacc tgagtgtgtt gatttgatc 229

<210> 9401  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 9401

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actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240  
tgatgggtggg ggcaactggc acatagtttc ttaaatctct cccagtactc atacaggctc 300  
tctccactga gttgtcaaatt acctgagata tccttcctga tg 342

<210> 9402  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9402

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cataaagtct attgttattc ctcaaccaag gttctcccca cgcacagaga ttagcaccag 120  
 acccagttga ccgctctcagc tcttccttca acaatatttg agaagcgtag atgctacacc 180  
 acacatagga tggaatgtga cctacaacaa cgtccaaaaa atccctccta gggaaatatt 240  
 tatctttgaa aatcctagaa accatagttt tgggtgttga tagaaacatc cagccttggt 300  
 tccccaacat tgccaaatta aagccacaaa agtctcaaaa tctatgccca ttctttctta 360  
 ataacggtta atctttccca agttggaata actgagaatc tagaaggggg ttgaatagat 420  
 tcttttaaat gttta 435

<210> 9403  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9403

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 gcagaacaat tatgacctct ccagcaacag atacaatctc ggatggagga atcaccctaa 120  
 tctcagatgg tctagccctc aacagcaaca acaacagcct gctccttctc tccaaaatgt 180  
 tgttgggtcca agtagaccat acgttcctcc tccaatacaa caacaacaac aacaacaaca 240  
 gccccagaaa caacaaacag ttgaggcccc tccgcaacct tcccttgaag aacttgtgag 300  
 gcaaatagact atgcaaaaca tgcagtttca acaagagacc agagccttca ttcagagctt 360  
 aactaatcag atgggacaat nggctacaca gttaaataca caactgtccc agaattctga 420  
 cagattacct tctcaatctg tc 442

<210> 9404  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
 <400> 9404

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 caatacggac atgggtcccg atcggaacca gcttcagggt atgactaaac gagagcatga 120  
 gtccattaag gaatatgcc agagatggag agatctcgca gcccaagtcg taccgcccac 180  
 gacggaaagg gagatgatca caattatggt agatacgtta cccacgttct actatgaaaa 240

gctgataggc tatatgccag ctaactttgc ggatctcggtt ttcgccggag aaaggattga 300  
 ttccgggcta cgaaaaggca agtttgatta tgctgccctt a 341

<210> 9405  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 9405

tgagatggaa gacaaccctt ccttgtaatt gtgtgggtta ttataatatt taataatttt 60  
 atcactactag aattaaaatt ttatattata gtaattatat ttaaaaaaaaa ttataatatt 120  
 ttaaaattat ttgatatatc atttttgtaa atcaaaataa atgtaatata aattttttta 180  
 atatataaaa atgagtttca ttcaataatc tttttaattt tgttcaattc attaaaactt 240  
 ggcacaaata attaacttat ataattataa ttcaatgtta gatcaataaa ataataattct 300  
 atataaattt attactata aaaaaagtaa ttattagtgt aatatactgt cttgtgttat 360  
 gtagttaaaa gaaagtataa taataaagtt gattttcttct catttatcgc agaaagag 418

<210> 9406  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9406

agcttgattt ccttttgtcc ggaaaccttt cttttctcat gtgcacccaa acccaatctc 60  
 cgggttcgaa gacaaccttc tntctccctt tgttggttg gtttagcatag nctttattct 120  
 tcctctcaat ttgatctttg actctctcat gaagcttctt cacatagtcc gcctttgctt 180  
 gaccttcttt atgcttaaaa acagaaacat tatgcatagg caaaagatca agaggagtta 240  
 gtgggttaaa accataaaca acttcaaag gagaacaatt agtgggtgcta tgaacagctc 300  
 tattgtaagc anattcaaca 320

<210> 9407  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        9407

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agctttgaat gcactattca atggagttga caagtacatc ttcagactga tcaacacttg   60
cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt  120
gaagatttcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaaggagga  180
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgcct gcactgcctt  240
gggagagagg ataacagatg anaagctggt gagaaagatc ctcagatcct tgcctaagag  300
aattgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga  360
tgaactca                                                                    368
  
```

<210>        9408  
 <211>        433  
 <212>        DNA  
 <213>        Glycine max

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<400>        9408

tgcactaaag aatgctaata tagatttgca aaataattta ataactgaca tagtgatagg   60
aaatcgaata aatagaatga gaatagaaat ggatagaata gaagtgagga gtacacttag  120
taataaagga tgtgggattg aaacgtggga aaaataagat gcataatgag atatttataa  180
tgtattatta attaaactaa ctagctaggc aatgataaaa aaagaaaatc acattgaagt  240
ataaacgata gagacaataa agaaatacaa taaaataaag agctattcac taatatgtat  300
aattattttt atttttttat ttctttttct ttatttttct ttgttttctt ttttttgttt  360
tttgtttttg tttctttttg gcttttttgt caaagtcaaa ggattgactc tgacttaatc  420
aacactgtta gac                                                                    433
  
```

<210>        9409  
 <211>        428  
 <212>        DNA  
 <213>        Glycine max

<223>        unsure at all n locations  
 <400>        9409

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tgtaatcgat tacacacaaa ctgtaatcga ttaccatagc atattttcag aaaatattct   60
caacagtcac atctttttat ttgggttcttg aatggctatc aaaggcctat atatatgtga  120
  
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cttgagacac gaatttgaaa agagttttcc agaacaaaaa ggtcttatcc tcttaaaaag 180  
caaaatcgat ttatcctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttctcttc 300  
ttctttattc tgaaaaggga taaagagatc gagggctctt tgttgtgaaa gaatttctaaa 360  
cacaaacgaa ggattgtcct tgtgtgttta gaactngtaa aacgaattta caagatagtg 420  
gaactctc 428

<210> 9410  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9410

agcttgaaat gttagccaac gaattgtatc aatataggtc ttgagtcata agcgattctt 60  
ggcaacttgt tctgaacttt gcacatttat gatgttcttc atgtgctttg actgattcaa 120  
caagtcttta caagccttca ttgcattggt atgtggggag caaggactat ctccaatgtg 180  
attaagaaat gcacaatttt tccagcatta acctttctac atgatctaaa tcttgttcta 240  
ttaagacatt tgatccaaaa atgatcactt tgctttgtac tgaatagata gcataacaaa 300  
caataaactc tatcattaga tggngaatac tctagcccag aaagaaacat ttaaaccaag 360  
tacattggaa aatgcctgga tgtttctctt a 391

<210> 9411  
<211> 389  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9411

agcttgtgca ttcaatatcc tgatgattgt gttccatatg ttctcaagac tggactaata 60  
catttgctgc ccaagtttca tgggtcttgca agtgaagatc ctcatatgca tcttaaggag 120  
ttccatattt tttgttccac catgaagccc cctgatgtcc aagaagatca tatatttcta 180  
aaggtttttc ctcatctctt ggaggagtg gcaaaagatt gggtgtacta ctttgctccc 240  
aggtccattt tcagttggga tgacattnta ggcacagggc aacttagtgg agagagcttg 300

tatgcgtact angaaagatt caagaaatng tgtgcaagct gtcctcacca ccagatttct 360  
gagcaacccc ntcttcatta tttctatga 389

<210> 9412  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 9412

agcttgtcga ccagtaatgt tctcctataa tagcacacca taagcataga catcagtctt 60  
ttcatctact ataccatgca taaagaattc aggaggaagg tagctgctgt agcatccaag 120  
gttaatgcaa aagaaaaaca taaaaaaaaa agtgtcaatt aattggtgaa aagaaggaaa 180  
gaaaaaaaaa tgttaacata gaaagattgt gaagatgtta aatatacaaa ctccgaatgt 240  
gccttccact ttggagacgg tgtgatgagt ccattggtcg ggcaaccact ttgcaagccc 300  
aaaatcagat atctggtgta agattagcat taaacaaact tac 343

<210> 9413  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 9413

tatcattgaa caacgaaagc tgtcaagaaa ttcaaagggt cataacttat cacacgggag 60  
tccgattcag gcgcaaaata taccgagacg ctcgagattg cacaacggaa gccctcaaga 120  
aattcaaatg gtcataactt atcacacgga agtccgatga acgtgcatag tatatcgaga 180  
agtcataat tgagcaacga aagctctcaa gaaattcaaa tagtcataac ttatcacacg 240  
gaagtccgat gtaggcgcat aatatatcga gacgcttcga attgaacaac gaaagctctc 300  
gagaaattca agtgggcata acattgtcaa cggaagttcg attcatgtgc ataatatatc 360  
gag 363

<210> 9414  
<211> 315  
<212> DNA  
<213> Glycine max

<400> 9414

agcttgaaat tgaacaacgg aagctctcga gaaattccaa tggtcataac ttatcacacg 60  
gatgtccgat tcaagcgcac aatatatcca gacgctcgaa attgaacatc gaaagctctc 120  
gagaaactca aatggacata acttgtcaca cggacgtccg attcaggcgc ataatatatc 180  
gagacgctcg aaattgaaca acggatgctg tcgagaaatt caaatggtca taacttgtca 240  
cacggaagtc cgatttaggc gcataatata tcgagacgct cgaaattgaa caacgaaagc 300  
tctggagaaa gtcaa 315

<210> 9415  
<211> 407  
<212> DNA  
<213> Glycine max  
<400> 9415

agcttatgaa caacaaaaga agtttgagtc cttgaggggt aggaagagat gactcatgtg 60  
aactaataat aactaattgg aagtaaagta ctacatatct tttcaaaaat tgacttattt 120  
aaagtgaata aaaataaaat aagtaatttt ggttggtcaa aagaaaatca actaataata 180  
tttcaataaa ttcacaactt attatgtttg tgtatgtaat attgattatt gattttttca 240  
aactaagtat ggatactttc aatatattga aatttgaatc ttcttttcaa tgctttcaag 300  
ttttgaatac ggaaaagtta actaaaagga ctggatcatga acccttattt ctgtcaatga 360  
agattcaagc ctttataaag atgatgcata ccaagtctca taaaagt 407

<210> 9416  
<211> 423  
<212> DNA  
<213> Glycine max  
<400> 9416

tgtaattgag caacggaagc tttcgagaaa tttaaattgt catcactttt cactcggaag 60  
tccgattcag gcgcacacac tatagagacg ctcgaaattg aacaacggaa gctctcgaga 120  
aattcaaatg gtcataactt gtcactcgga ggtccgattc aggcgcataa tatatcgaga 180  
cgcttgaaat tgagcaacag aagctttcga gaaattcaaa tggacatcgc ttttactcgc 240  
gaagtccgat tcaggcgcac cacatataga gacactccaa attgaacagt ggaagctctc 300  
gagatattca aatggtcata acttttaact cggaggtccg attcatgcac acaatatatc 360

gagacgctcg aaattgaaca acggaagctc ttgagaaatt caaacggtca ttacttttca 420  
ctc 423

<210> 9417  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9417

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggttgat gatgatttct 120  
ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
aattgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcaagttaa ctgaattttg cacatctgaa ggcactcactc 300  
atgagttctc tgcagccatt acaccacaac aaaatggcat agttgtaagg gaaaacagga 360  
ctttgcaaga agctgctagg gtcattgctc atgccanaga acttccctat aatctctggg 420  
ctgaagccat gaacaca 437

<210> 9418  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9418

tcaagaaaaa gatggcctca gcaaactcct tattttcata agggaattct atcaatagac 60  
ctccaatctt taatggagag gggtaccatt actggaaaac ccaaattgaa atttgtattg 120  
aggcaataga cctaaatatt tgggaagcca tagaaatagg gccttatata cccaccacag 180  
tggaagaat tacaatagat ggcagttcat caagtgaaag tataacttta gaaaaaccta 240  
gagatagatg gtctgaagag gatagaaaac gactacaata caatttaaaa gccaaaaaca 300  
taataacatc tgcctgnga atggatgaat atttcagggt ttcaaattgt aagagtgcta 360  
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagat 417

<210> 9419



<211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 9419

agctagtggg gagatcttcc tctcttcttg ttgcacacgt gccgcgaaaa atgcttagtc 60  
 accattctac tcaaactgaa aagattttca actcattcaa caagtttgaa gatgtatata 120  
 agggaagggt cacactacat tcctataagg gcattttctcc ttatgctaca atgcacaatg 180  
 atgtgtgcta cttggcactt gaaaagagaa caacttttat catcacacct tttcataagc 240  
 aatggatact tggagggaca actgagtcac cttttgcttt taagcagctc aataagaatg 300  
 tcctagagaa agctccttgc tcagttggtg tcctcattga tcgtggtaac caaaagatgt 360  
 tttggtgtgg cttcaaaaag ggatcaatat atcaagtagc tatgctcttc tttggtgggtg 420  
 cagatgatcg 430

<210> 9420  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 9420

tgcgagctcg gccggaatcc gaaattgagg agatgttgca gaccttaggt gtggctttgc 60  
 tgtgtgtgaa ctcaagccca gatgacagac cgaccatgaa agatgtggta gcaatgatga 120  
 aggaaattag gcaggagaga gaggaatgtg tgaaagttga catgcttctt aatgcatctt 180  
 ctgcaaatga gcaacaagaa agaaatcatc tcaactgaaga accaatgtca atgataagca 240  
 ccagcagcac aaatctgcat ctgcattact ctccccatcg ccttcaaaca ccaaagtaac 300  
 ttccaaatag ttaaataatta gcaatgtgtc ttggcaacta agatttcctt agcaagaatg 360  
 gtttctgtcc tgttatcatt aattaattca gtttcatatt tttggtttct tt 412

<210> 9421  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 9421

agcttgcctt gcccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60

ttgggataaa ggtagtgttg ccatgttttc aaagcccgt a taaggcata caactcctta 120  
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240  
aaagattttt gaaagtttgg caacgcaagt atgggggcat tagttagctt ttgcttaaga 300  
acattgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcact 360  
tcattgagag gtgctgccaa tgtgctaaaa tccttcacaa atcgtctata aaaacttgct 420  
aagccatg 428

<210> 9422  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 9422

tcacacagtt tatcattctc aaacttgagt tttggaagac caattactaa gtctttccta 60  
actagatgat ttaaagtatt catattattg tgtgcagtc tacaatgcc caaccatgaa 120  
tcattctatt tactcaccaa gcaacttagc tcatgaaaag atgcatgctc aacatttagc 180  
atatagatgt tacctatcct tttaccaatg tggacaactt taccagatat ggcttcactt 240  
ataagacaac aatttctatt gaattcaatc ttgaaacott tatcacaaat ttgactaatg 300  
cctataagat tatgctttat tccatccaca tataacacat tctttatcta agttttgtgt 360  
tgattcccta tatttccttc tcccattata 390

<210> 9423  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9423

agctntgaga aaaatctaac gacaataact tttaactcgg atgtctaata gagccctgta 60  
atatatcgag acgctcgtaa ttgaaaacgg aagctctaag aaaagtcaaa cgacaantaa 120  
ctttaactcg gatgtctgat cgagccctat aatatatcaa gagctcgaa attgaaaacg 180  
gaagctctaa gaaaagtcaa acgacaataa cttgtaactt ggatgtccga ttgagccctg 240  
taatatatcg agacgctcga tattgaaaac ggaagctcta agaaaagtca aacgacaata 300

aactttaact cggatgtccg attgagcgcc gtaatatatg gagacgcttg taattgaaaa 360  
ctgaggctct aagaa 375

<210> 9424  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9424

ntgatggtgt cgagaagaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60  
gtatgtatac atgattttga tgatgtcaaa gaagaatcta acaaggctgc ttcaaatgat 120  
aagcatttgc ttcaagaata attcaagatt gcttcaaaa acaaagcctt gtttcaagat 180  
tcactaaaga ccaagccttg ccttaaaaca aagtgtttc aagacatgca aggctctggt 240  
aatcgattac caggaagtgt aatcgattac cagaagacag ggttgagaaa tagctgttga 300  
aaaatgtttt gaatttgaat nttcaacatg taatcgatta ccatatgtct gtaatcgatt 360  
accagcaacg aaactttgga aatcaaattc aaaagtcata cccttcaa at 412

<210> 9425  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9425

agcttgaaat tgaacaacgg aagctctcga ganattcaaa tgctcataac atttcacacg 60  
gatgtccgat tcagatgcat aacgtatcta gatgtcctaaa attgaaaaac agaagctctc 120  
gagaaattca aatgggcata acttttaaca tggatgtctg attccgaagc ataacatata 180  
gcgacgctca aaattgaata agagaagctc tcgagaaatt caaattgtca taaattttca 240  
cacggatgtt cgattcgggg ataaaatatg ttgagatgct tgaaattgag agataaaaagc 300  
tctcgtgaaa ttccaatggt cataactttt cactcggatt tccgattcat gacacttgaa 360  
attgaccaac ggaagctant gtataaatcg aatggtcgta acttttcaca c 411

<210> 9426  
<211> 430

<212> DNA  
 <213> Glycine max  
 <400> 9426

agcttcttag tttcagatga tgtagctgag tttgtagcta cctcatgcac tcctctaata 60  
 actatagcat catttctggc gctaaactgt tgggagttgg aagccatctt ctcaattaaa 120  
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcgta 180  
 cttctctcca tattactgag tccttcataa aatattggag aagcagctgc tctgaaatct 240  
 gatggtgagg gcaactggca catagttttt taaatctctc ccagtattca tacaggctct 300  
 ctccactgag ttgtctaata cctgagatat ccttcctgat ggttgtggtc ctggaagcag 360  
 ggaaaatttt ttctaagaat actctcttca ggtcatccca gctcgtgatg gaccttggag 420  
 caaggtaata 430

<210> 9427  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 9427  
 taagctcctt caattgcaca aggtctctta tatttgaaga gtatccttgt ggaaccttca 60  
 cccaacgaag aactgacaa aaacttatct tctccttctt ggacaaagta tggcaggctg 120  
 ggggcaagta aattttcttc ccattagtcc ttggatgcaa ctgtgattgt gtacccatat 180  
 cagctagatc ttgatgggta ttcaagacat ccttcatttt gccttgaatg ttaaggagcg 240  
 tccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgcctaa 300  
 cgtgaagatc acaccagtac ggaagatcaa agaaaatgga ccttttcttc catatgcaac 360  
 tctgactttt atccttcttt t 381

<210> 9428  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 9428  
 agcttcatgc ttaactatgt atggcaaadc ttcattattg ttgttcaaga catacaagcg 60  
 agcttgtaac aaatcttcta cacttggagt gatcacatgc agtcctcttg aacccttacc 120

acccattctg tcatcatgct aagactcagg aagcccaaca gatttagctt tctctaagta 180  
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcatctgg 240  
 acgatataga ttctttgtat acccttttaa gatcttcacg tatcgctcaa ccgggtacat 300  
 ccaccgtaga taaacaggac cacaacattt gatttctttg accagatgca caatcaagtg 360  
 aatcatgatg tcaaagaaag cggggggaga atacatcttc aactggcaca gta 413

<210> 9429  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 9429

tgaagggtgtg tagcctacca tcttttcata gtagaatatt ggtaatgtgt ctactatcac 60  
 ggttatcatc tccctttttg tcattgaggg aactacttgg gctgccaggt ctctccacct 120  
 ttggacgtat tctttgaaag attcatgccc ctttttgac atgttctgta gttgcatect 180  
 atccgaagcc atatcagaat tgtattgaca ctgcctaacg aaggcaacca ttaggtcctt 240  
 ccaagaatgg actcgggaag gttccaagtt agtgtaccag gtaacagcta cccagtatg 300  
 actttcttgg aagaaatgta ttagcagttc ctcatatttt gtgtatgcc ccatcttccg 360  
 acaatacatc tttagatggg tcttcgggca agtagtcccc ttgta 405

<210> 9430  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 9430

tgtcagatat atatatcgga ttaatttcaa acagtatctt atgcataata ggtgggttcta 60  
 gtaataagaa agtttttagtg gttgatgtaa cgtaagaaa tcgaatcttt taagtcatca 120  
 cgtttttttt tttcctatat gcaatgtttt aaaaatagga ccaaatcgat attactacta 180  
 gtccaatact gtgtttctcc atgtaatagt tgcaacattt tttatataaa aataactact 240  
 gccacatata taattatgta tttaacttat ttgtattaaa tataacttaa agagtttaat 300  
 gataatgtat tgataatatt tttatattat cgtttaatca taattttttg ttaatatgac 360  
 ttttaaagta attattataa aagttataaa tacaatttta ttatacataa tggattatga 420

tcg

423

<210> 9431

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9431

agcttagatg gagaagaaga cacagagtgc cagcttctta gggctcacca tatttttttaa 60

aatataactt caacatcgggt ttttaaaaaa acccgatggt aacaaaatga tgttaagggt 120

aacatcgggt ttctggagaa aaccgatggt atcataacaa acgttaacat cggtttttcta 180

aaaacccgat gttaataaac atatgttaac atcgggttatt taaaaaccga tgttactaat 240

aaatgttaac atcgggttctc caataaccga tgttaatgaa cttcgttaac atcgggttttt 300

cacaaaaccg atgttaacgt atacacagta tntacaatta tgccaccgcg catatgttaa 360

catcngtttt ttttaacaacc gatgttaaca caccg 395

<210> 9432

<211> 423

<212> DNA

<213> Glycine max

<400> 9432

agcttggaca atggaaagga aatcttgcta aaatcttaga tgaatctcct gtaaatacct 60

ctactagaga tcaaagtccc taagactata cttcatgga caataaaatg acatttttca 120

aagctaagaa caagggttagt ctcaatgcat tggtaagaa ctctagagag gcatgcacat 180

ttggaagggtg ccaagagcgt tgcataggcc aaaaggcatc ccggtgtagg caaatgtgtc 240

gaatggacag gtgaatatgg tctagtgtctg gtccttcgat gcaatataaa tttgcatgta 300

acctgaaaaa ccatcaagaa agcaataatg tgatttacct gccaaccttt ccagaaccta 360

gccaatgaat gagagaggga agtgattctt gcaagttgcc tagttaaatc tcctataatc 420

aat 423

<210> 9433

<211> 352

<212> DNA

<213> Glycine max

<400> 9433

agcttatcat taaaataaat ctaaattggt gatgatgccca tgatctatat ctttcaattt 60  
ttgtatgatt acttgtatga tatgttttaa agtatttgat tgattgctca tgtttttcaa 120  
aattattata ttttgtttct aaagccttgt atttggctat atgtttatga aatttgaaca 180  
cttagtatga cttgaatatt tatggattgt gatatatgac tatgtgggtt gcattttaa 240  
ctggttttat tcaagatatt atatttgcaa aaactttaat attaagcata aattcaaaaa 300  
gaaaaggggt gaaagggatg agtgaacagt acaacaaaaa ttgtatgcat tc 352

<210> 9434

<211> 417

<212> DNA

<213> Glycine max

<400> 9434

tgttaaaaag ggaagaaagt caaaaactct tttcaaatta aaaatgttgt ttctacttca 60  
aaacccttg aactacttca catggattta tttggtcct ctagaactat gagtttgggt 120  
ggtaattact atagcttact tatagtagat gattactcaa tgttcacatg gactttgttt 180  
ttgaaaacaa aaaacgaagc ttttgatgct tttcgcaaat tgccaagatg attcaaaatg 240  
aaaaaggtct caacattgtt tcacttagaa gtgatcatgg aggcaatttc aaaatgagtc 300  
ttttgaaagc ttttgtcaag aaaatggaat tcaccataat tttctgcccc aagaacacct 360  
caacataatg gtggtgtgga gaggaaaaat agatcccttg aagaagctgc gagaacc 417

<210> 9435

<211> 355

<212> DNA

<213> Glycine max

<400> 9435

agcttagcta cacatacctc tctaatagct aagctcacct ccttgagatg agaagctaga 60  
gcttagctac acactcccta taatagctaa gctcaccct atgacaaaaa atatgaaaat 120  
acaaaaaaaa agtccttact acaaagacta ctcaaaatgc cccgaaatac aaggctaaaa 180  
ccctatacta ctagaatggc caaaatataa ggctacgaa ggaaatacct attctaatat 240

ttgcaaagat aagcgggctc atacttagcc catgggctcg aaatctaccg taaggctcat 300  
gagaacccta gggccttccc ttggatctct agcccaatct acttgagatt ttcta 355

<210> 9436  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 9436

agcttaagct ccttcaattg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60  
ttcaccgat gaagacactg acaaaaactt atcttctcct ttttgacaa agtatggcag 120  
gctgggggca agtaaatattt cttcccatca gaccttggat gcaactgtga tcgtatgccc 180  
atatcagcta gatcttgacg ggtattcaag ccacccctcg tcttgccctg aatgttaagg 240  
agcgtcccaa tcacactgtc acaaacattt ttctccacat gaataaagag tttagtcccc 300  
attgagcatt tcaagaagag catggaggga gtgtgtcaga attcggtgaa gcagaagccc 360  
tttcttggac aataaagggtg gaattaccca gggtagtggg cttgactatg gcaat 415

<210> 9437  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 9437

tgctaaccba tggaagctcc taatatctcc cacacttttt ggggtggacc attcttggat 60  
tgctttgatt ttctcagggt ccacttggac cccatttcta ccaactacaa accctaagaa 120  
aactatatta tctacacaaa aggtacactt ctctatattt gcaaagaggg tgtttttcct 180  
aaggactgaa agaacttgcc tgagatgtcc taagtgtatc tctaggtccc tactgtacac 240  
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta aggcattgatt 300  
cataagcctc aaaaagggtgc ttggtgcatt agtaagccca aaaggcatca ctagccattc 360  
atacaaacca aactttgtct ttgaaagcgg ttccactca tcaccctttt tc 412

<210> 9438  
<211> 437  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 9438

agcttagcct gcaaaaaata atgaatatag agttaacatg ttggttccac aaaccaaatg 60  
ctagcctaaa cccaatgctt aggcattcac tttaagacta cacagtgtaa catgatagac 120  
acaaaacaga aaagatatatt atggaactat aagggcataa aagagttacc ttattgcaag 180  
ttgaagaaaa aacaagaaca actttatcaa tgtattccaa agattttgag aagttgcccc 240  
aatcatagaa ggactgagtt gtttccaaag cactttgagc ctgcagtagt tgagagagct 300  
tattttctgt agctgaatct ccaggtttta actccagaga anatgtacaa gcgcacaatt 360  
aactcaagca attacaaact ttatcataat cactagtnca aatatacaga tagtattcaa 420  
ttgagaaaat agagaat 437

<210> 9439  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9439

agctatgaaa ttgtggatga gccaaccatg aaattgggac aatgtatctt gtccctgtttt 60  
caccaacata cactgcaaag tgcccttttg gcacatcttc tggaagacca cccctcttcac 120  
tgtagccctg ttgtgcttcc ttcccaaagc ttgaacacct tctcacaatt tgctttatca 180  
catctgcttg gggtagctta ttggattttt tgatggccat tgtgaaattg attgttagta 240  
ctctttgcac accttcaagt tgtaactttt gaaagggctc cttgagggtg ctgaaagtgt 300  
gtgattcatg gggcgagttt ggagaggctn tatttatcat tgggacattg gtatgtgtgg 360  
aaaatagaca atgagtttta gagaaaacag ggtcacgtgg atgtggtgac atgtagcaga 420  
ccacac 426

<210> 9440  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 9440

tccttaagaa gattcctaaa gatgcttgag cttagctaca catacctctc taatagctaa 60

gctcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120  
 tcacccttat gacaaaaaac atgaaaatac aaaaaaaaaa aagtccttac tacaaagact 180  
 actcaaaatg ccccgaaata caaggctaaa accctatact actagaatgg ccaaaataca 240  
 agggccagac gaaggaaata actattctaa tatttacaaa gataagcggg ctcatactta 300  
 gtccatgggc tcgaaatcta ccctaaggct catgagaacc ctagggcctt cccttggatc 360  
 tctagcccaa tctacttga gttttctacc caatgccctt g 401

<210> 9441  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9441

agcttagaga agcactgagc accaccaac acatgggaat aggaaatctg tccttgatcg 60  
 tgagggcggt taaagctntg taatcaacgt agaagcgcca ggatccatct tgtttcttca 120  
 ccaacaatac cagcaaagaa aatggactgg tacttggctg aatcaggacc ttttgagca 180  
 tggagtcgat ctgcaattca atctcgcgct tttggaagtg agggtagcta tacggtctca 240  
 tgtaactgg agtggattga ggaagcacgt gaatgtggtg gttggtgtcc ctagccggtg 300  
 gcacgcgat gtggggtcga aataaggcac caaatatggt gagcaatgtt cggagtacga 360  
 agggcaagtc ctccatgcgt gaaggaggga taccctctat gactactgtg atgtggaagt 420  
 aaagtccagg t 431

<210> 9442  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9442

agcttaaata caactcccga acttagaatt ttcattntga ccagtttctt tcggtttttc 60  
 cgatgttttc caciaataaa cgttggtggc gactccgcgc atctttcttc ctttgaaag 120  
 cgcacccgtt agcttcgctt tcgctcgccc ttaaaagggc acgttgcgac acctatcaac 180  
 aacaacaaat atggaatcct taccattact tgttctaggc agccctaaaa caaagtccat 240

tgataaatta atccatggag aatccgaaat tggtaaaggg gtatacaaac cataaggcat 300  
 tacctttgac ttggcctttt tgcaaacaaat acaacgctca canaattttct gcacatcctt 360  
 cttcatgtta ggccaataaa aatgctcttt caatgtatct 400

<210> 9443  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 9443

cgtaaagctt ttggtgggaa atgatagtga gactcaactc ggataccaac cttgcgctac 60  
 aataattgca gcaagaccca ctatccacaa tgggagaaca atttttgttt aaaaccttgc 120  
 atcttatatg aaaaatgttc tctctttcgg tttaggctag gtcacaagat tgactcccaa 180  
 ggagccttct caccattaga agatcacctt cttcataggg gtaaaccctt tcaatatgct 240  
 catcaccctt ggcttcaccc ccacttcac ttgaaaaagg agaagaagta gcctcctctt 300  
 ggctactata gatgtcttga tcctcatga tcatggtttt ctttgtgggg catcgagaag 360  
 caatgtggcc tatcccaata catttgaagc atttgatgtt actagttcta tc 412

<210> 9444  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 9444

tataattgaa caacgaaagc tctcaagaga tgcaaatggt cataacttat cacacggaag 60  
 tccgattcag gcgcataata taccgagacg ctcgaaattg cacaacggaa gccctcaaga 120  
 aattcaaag gtcataactt atcacacgga agtccgatta aggtgcatag tatatcgaga 180  
 agtcataat tgaacaacga aagctctcaa gaaattcaaa ttgtcataac ttatcacacg 240  
 gaagtccgat tcaggcgcac aatatatcga gacgctcgaa attgaacaac gaaagctctc 300  
 gagaaattca agtggtcata actcttcaca cggaagtcgg attcatgtgc aaaatatatc 360  
 gagacgcttg aaattgaaca acagatgc 388

<210> 9445  
 <211> 247  
 <212> DNA

<213> Glycine max

<400> 9445

agcttgaaat tgaacaacgg aagctctcga gaaattccaa tggtcataac ttatcacacg 60  
gatgtccgat ttacgctcat tttttatcca gatgtccaa atcgaacatc gaaagctctc 120  
gataaactca aatgggtcatg gggttattaca ccgacgtact attttggcgc ataatatgtg 180  
ggggcgctga aattgagcaa cgcaagctgt ggagaaattc ataaggtaat aacttgggcc 240  
actgatg 247

<210> 9446

<211> 444

<212> DNA

<213> Glycine max

<400> 9446

cgctatcagg accttgaaac tcagcttaac aaaggcatgc gaaatgggtg gaattcctag 60  
agcaattccc ttatgttatc aaacataaaa agggaaaagg taatattgta gccgatgctc 120  
tttctcggcg tcatgcatta ctttctatgc ttgaaacaaa attgattggt cttgaatggt 180  
tgaaaagcat gtatgaaaat gatgaaactt ttggagaaat ttttaaaaat tgtgaaaaat 240  
tttcagaaaa tggtttcttt agacatgaag gctttctttt caaagaaaac aaattgtgtg 300  
tgctaaatg ttctactaga aattttcttg tttgtgaagc acatgaagga ggtttaatgg 360  
ggcatttttg ggtccaaaag actctagaaa cattacaaga acatttttat tggcctcata 420  
tgaaaaagga tgtgcagaaa tttt 444

<210> 9447

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9447

agcttggtcaa attagtgtat ggattgaaac aagctcaaga gtttggtatg aaagaccaag 60  
ttcattttta gttcaaaatt tattctccaa aggaatagcg gatattacac cattcataaa 120  
gacttagaaa atggatctgt tgatagtata gatctatgta gatgacagca tctttggtat 180  
ttcctcaaaa aggatgtgca aacaattttt tgagctaataa aaaggaaaat ttaaaataag 240

catgatggga gaactaaagt ttttttctaag ggcttttaa at cattcaaaag aggttttagaa 300  
 tggatgaaac cagaccagtg gctaccctca tgcacccatc cactgttagt gataaagcag 360  
 aanagaaaag caccaatagt gcataccaat ttcacgggaa atcactagtg tcataatctt 420  
 caagaaacaa cac 433

<210> 9448  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 9448

ttgagcaaat tcaaacgaca ataaatTTTT actctgatgt ccgattgagt ctcgtaatat 60  
 atcgagaagc tcgaaatgga ataccaaagc tctgagcaaa ttcaaacgac aataactttt 120  
 tactcggatg tcttattgag tcccataatt tatcggaacg ctcgaaatag aataccgaag 180  
 ctttgagcaa attcaaacga caataacctt tttactcgga agtcggattg agtcccgtta 240  
 tatatccaga cgctcgaaat tgaatgttga agctctgagc aaattcaaac gacaataacc 300  
 tttttactga tatgtcggat agagtcccgat aatatattga gacgctcgat atggaatacc 360  
 gaatctgtga gcaaattcaa acgacaataa ctttttactc ggatg 405

<210> 9449  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 9449

agcttcaaca ttcaatatcg agcatttcga tatattacgg gactgaatca gacatccgag 60  
 taaaaagtta ctgtagtttg aagttgctca gagcttcaac attcaatata gagcgtctcg 120  
 atatattacg ggactgaatc agacatccga gtaaaaagtt aatgtcgttt gaattatctc 180  
 agagcttctg tattccattt cgagcgtctc gatattattac gggactcagt cagacatccg 240  
 agaaaaaagt tactgtcgtt tgaatttgct cagagcttcg ataatacaatt tcgagcgtct 300  
 agatatatta cgggactcac tcagacatcc gagtaagaag ttattggcgt ttgaa 355

<210> 9450  
 <211> 304

<212> DNA  
 <213> Glycine max  
 <400> 9450

tttaaagtgt ttcaatgttt tagaaagcat gtaatcggtt acacatggct tgtaatcgat 60  
 taccagtggg ttggaaaatt ttaaaacaac cataagaaat ttgaatttaa atttcaaagt 120  
 tgtgtaatcg attacagtaa gttggtaatc gattaccagt gtttaaaaat tcaaatttca 180  
 aatgtgaaga gtcataactc ttcagaagta attgtgtaat caattacacc attatggtaa 240  
 tcgactacca gtgagtagtt ttgaaaaata ttcccaacaa tcacaacttt tcatttgaat 300  
 tttg 304

<210> 9451  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9451

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60  
 tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcac tcttttgag 180  
 gatagacatg tggaggagta actggtttct tgagggtgcc ataggtaaca gttgtccttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
 gtgaagttta cattgaatcc ttcacacac aactgactga tgctgatcaa gtttgagtc 360  
 agtcccttca ccagcagtac tttgttcaga ctaggaagtn catcatggac tagctttccc 420  
 attccag 427

<210> 9452  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <400> 9452

tggatgttta acacaatata tacagagatt cagattatta cttacagttt taaaagtoga 60  
 gaattaaaat caaagatact tgcttttaag gagctaaaat aagaatacca ttaaccotta 120

tcttgaaata cttagttcac ttctctagct actttctttg acattcatgt atatatgcac 180  
 tataaagatt aaataatgga gtactaagga cttatctagt tatctaccac aataaatata 240  
 tctctcaact tcaacccaat atatagtatt ataaacggct aaatattccc aaacagaat 300  
 atataaaaag atttattttg atgattatca atataaaaat cgttctatta atcaattgaa 360  
 aatcatcata actctactgc tatatatggt aatattctaa taaataat 408

<210> 9453  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 9453

tgatgtttgt gttgaatgca ttaaaggtaa acagacccaa agtaagaaat tatgtgcata 60  
 tagagctaca gacgtcttgg aattgataca tacagacatt tgtgggtcat ttcataatcc 120  
 ttcattggaat ggttaacaat attttatatc attcatagat gattactcca gatatgcaca 180  
 cctgtatctt atacatgaaa agtcacaatc cctggatgtg ttcaaaacat ttaaagttgt 240  
 agttgaaaat caactcaaca aaagaatcaa gagagtcaga tctgaccgtg gtggtgaata 300  
 ctatggcaga tatgacggtt caagtgaaca acgtcctggg ccttttgcca ggtacctaga 360  
 ggaatgtgga atcgtcccac agtacacgat gtcgagggtca cctagcatga atg 413

<210> 9454  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9454

gatttctcca gatttacctg ggtcaacttt atcagagaga aatctgacac ctttgaagta 60  
 ttcaaagagt tgagtctaag acttcaaaga gaaaagact gtgtcatcaa gagaattagg 120  
 agtgaccatg gttgaaagat tggaaacggc aagggttactg aattctgcac atctggaggc 180  
 atcactcatg agttctctgc agccatcaca ccacaacaaa atggcatagt tgaaaggaaa 240  
 aacaggactt tgcaagaagc tgccagggtc atgcttcatg cccaagaact tccctataat 300  
 ctctgggctg aagccatgaa cacagcatgc tatattcaca acagagtcac acttagaaaa 360  
 gggaactcaa ccacactgta tgaaatct 388

<210> 9455  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9455

tgatgatttc ctatagggcat atanaacagc cttcaaaact cccattggca tctctttgtt 60  
 tcaaatggtg tacgaaaaag tgtgctacct accaatggag ttagaaatta aagctcatta 120  
 ggccatgatg ttcctcaact ttatctttat agcatccaga gagaaaagga aggtataact 180  
 acaagaactt aaaaaaatat gccacaacgc atatgattta tccaagctct acaacaaaag 240  
 aaccaatagg aaccatgaca aaaagatcct ctacagagaa tttaggccca aacttcaagt 300  
 attgctctac aactcaagat taaagttgtt tcttggaata ttaaaatcaa gatggagtgg 360  
 gctttttact atcaaagaca ttaagcctta tg 392

<210> 9456  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9456

agctttgacg tttgtgttga atgcattaaa gataaacata ccaaagcaa gaaattaggt 60  
 gcatatagag ttacagacat cttggaattg atacatacag acatttgtgg gccatttctt 120  
 acaccttcat ggaatggtca acaatatatt atataattca tagacgatta ctctagatat 180  
 gcatacttgt ttcttataca tgaaaagtca caatcattgg atgtgttcaa aacattttaa 240  
 gttgaagttg aaaatcaact caacaaaaga ataaagtgtg tcagatctga ccgtgggtgg 300  
 gaatactatg gcagatatga cggttcaggt gaacaacgtc tagggccttt tgccagggtac 360  
 ctagaggaat atggcattgt cccacagtac accatgccg 399

<210> 9457  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9457

tgaatgcatg taaccaccca tcttctcata gtagaacact agtaacgtgt cttctatcat 60



tattatcatc tccctatcca tcattggggg cgctacttaa gtttccagat tctccacct 120  
 ttgggtgtat tctttgaaag attcatcctc cttcttatac atgttttgta gctgcatttt 180  
 attcggagcc atatcagatt tgtactgata ctgcctaata aaggcaacca ttacgtcctt 240  
 ccaagaatgg attcgggaag gttccagatt agtataccag gtgacggctg cccagtaag 300  
 actttcttgg aagaaatgca tcaataatct ttcatttttc gagtataccc ccattttcct 360  
 gttgtacatc ttcaagtgat tcttgtggca agtagtcccc ttgtatttat cagaatccag 420  
 caccttgaac t 431

<210> 9458  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 9458  
 taacaaaagg catgcgaaat ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60  
 taaaaagggg aaaggttaata ttgtagccga tgctctttct cggcgtcatg cattactttc 120  
 tatgcttgaa acaaaattga ttggctcttg atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttgga gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt 300  
 tcttgtttgt gaagcacatg aaggagggtt aatggggcat tttgggggtcc aaaagactct 360  
 agaaacatta caagaacatt tttattggcc tcatatgaaa aaggatgtgc agaaattttg 420  
 tgaacattgc attgtatgta aaaaggcaaa gtctaaggta aagcctcatg gattgtatac 480  
 tccattg 487

<210> 9459  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 9459  
 agcttgtcaa attagtgtat ggattgaaac aagctcaaga gtttggtatg aaagaccaag 60  
 ttcattttta gttcaaaatt tattctccaa aggaatagcg gatattacac cattcataaa 120  
 gacttagaaa atggatctgt tgatagtata gatctatgta gatgacagca tctttggtat 180

ttcctcaaaa aggatgtgca aacaattttt tgagctaatag aaaggaaaat ttaaaataag 240  
catgatggga gaactaaagt tctttctaag ggctttaaat cattcaaaag aggttttagaa 300  
tgatgaaac cagaccagtg gctaccctca tgcattccatc cactgttagt gataaagcag 360  
aaaagaaaag caccaatagt gcataccaat ttcatgggaa atcactagtg tcatagtctt 420  
caaagaaaca acacaattgc catcaaacac cacttcatta gagatcata 469

<210> 9460  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 9460

agcttaaata caactcccgga acttataatt ttcattttga ccagtttctt tcgggttttc 60  
cgatgttttc cacaaataaa cgttgggtggc gactccgcgc atctttctct ctttggaag 120  
cgcacccgtt agcttcgcct tcgctcgccc ttaaaagggc acgttgcgac acctatcaac 180  
aacaacaaat atggaatcct taccattact tggtctaggc ggccctaaaa caaagtccat 240  
tgataaatta atccatggag aatccgaaat tggtaaaggg gtatacaaac cataaggcat 300  
tacctttgac ttggcctttt tgcaaacaaat acaacgctca caaaatttct gcacatcctt 360  
cttcatgt 368

<210> 9461  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 9461

tatgctacaa acatctacaa tagacctcct caacctcagc aataaaatca gccacaacaa 60  
aacaattatg acctctccag caacaggtac aatcccgggt gagggaatca tcccaacctt 120  
agatggctga atccttcaca acagcagcag caacaacaac agccttattt tcaaaatgct 180  
gctggcccaa ccaaaccata ctttctctca ccattccaac accaccacca ccattaccac 240  
cagcctaaaa accaccaacc agtgaaggtt cttcacaac tttccttgaa aaacttggga 300  
aggcaatgac ttttccaaaa aatgcagttt caccaaaaaa caaaaccctc attttaaac 360  
tt 362

<210> 9462  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9462

tctaaacttt atacaagaat gaaactctga tgccacttgt tagacaagtg gcctcagata 60  
 tcttaagaag gggggggttga attaagatat tccaaactac ttccccaatt aaaatctatt 120  
 tcacttttctt ttcaagttat aaattccctt aacaatgaac ttcttaaata ttaattcaaa 180  
 taaaacaatt tgaatatgaa tataaagcaa taataaacia aggagattaa gggaagagaa 240  
 agtgcaaaact cagatattata ctgggttcggc cacacccttg tgccctacgtc caatccccaa 300  
 gcaaccgcgt tgagagttcc actatcttgt aaattccttt tacaagttct aaacacacaa 360  
 ggacaatcct tcctt 375

<210> 9463  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 9463

tatacagcct acctgcatgc atgctagcta agtcgactgt gccagacagt gcttcttaat 60  
 gcctctaact cttcgaaccc actcccgctc gttctcacta agcattcgag ctgattctaa 120  
 cttcgctga taatttgggt tgcgatcgca aagcactgac tgtcaciaaac ttatatgtat 180  
 ctttcacata ataagtatac cataccctct actatatccc aagcatgcc aagactgcaa 240  
 tcatgatgat aatatgatcc atgccgacta ctattttgcg atagtggaac atctgcatct 300  
 tgtaccattg at 312

<210> 9464  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 9464

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
 gatattctaa gaaggggggt tgaattaaga tattacaaac tatttcccca attaaaattc 120

tatttcactt tctattcaag ttacaaattc ccttaacaat gaactcttaa ataatgattc 180  
 aaatagaaca atctaaatat aaatataaac caataataaa taaaagagtt taagggaaga 240  
 gaaagtgcaa actcggattt atactgggtc agccacaccc ttgtgcctac gtccagtccc 300  
 caagcaaccc gcttgagagt tccactatct tgtaaaatcc ttttacaagt tctaaacaca 360  
 caaagacaat cctttctttg tggtcagaat tcttttataa caagagaacc ctgctcttct 420  
 tatcccttaa agaattagaa agaagagaag aatgaatctc 460

<210> 9465  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 9465

agcttatccc atgcctcctt agcagatggt gcataagaaa tcttctcgaa tgcattcattt 60  
 tttaatgctt gatagatgag gaatagagct ttattgtctc tctttcttga atcctttaac 120  
 gtctcctttt gtacttggga tagcgaagtc tcatcttggt actcctttta gcatttttca 180  
 accatttccc aaacatcatg tgctccaaga agggccttca ttttgatgct ccaaagtaca 240  
 taggtgctcc cctttagaag cggaacttga aaggataccg cttcattgct tgccataact 300  
 atataggaat ttcttatcag aacctaactc ctgataccac tatggt 346

<210> 9466  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<400> 9466

tgtagtggtg tgtttaaatg tctaaaataa aagaaaaatt atgtaataat gtttctttga 60  
 agaaaatttt atcagtgaat ataaaatatt ttgaatatga attttgtagt atttttttta 120  
 ttagattagg ttggtgttaa tgatttatta gtgtgttaat aattcatgaa cgtttcaact 180  
 ttcatttaaa aaaattagta gatcatattt atttgaagaa agtattttga gtatgaaatt 240  
 tattttaata tgaagttgta gtattttttt aattagatta gggttcatttt tttgtgttaa 300  
 aaattgataa gcgttcaagt tgaaagtgtt atttgatgat gttttgttgt ttcttgatc 360  
 atatttaatt taatatattt gtagtaattt tgtaattacc tattttcatt ttgaaagtat 420

tattgttaaa attaattatt ttactacta acttcggtca tgaattattt tattttgtgg 480  
 taaaaa 486

<210> 9467  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <400> 9467

tagcaaattg acttgggtgt tgcccaattt catcgatatc tttgtaatac tcaccacctc 60  
 tattagatct aataattttc acttttttgt ctaattgtct ttctacttta ttcaagtaaa 120  
 tttctaaggc atccattgcc cgagatttct catgcagtaa gtaaacataa ccataacgtg 180  
 aatagtcatc aataaagggtg ataaagtatc tttcctttcc gaaagaacta acatcaaaag 240  
 gtccacaaat atcagtatgc acaatttcaa gaagctgagt gcttcttgta gctcctttct 300  
 ttgtatgttt tgttgttttc ccttgatata atccacacaa atatttagat ccgtaaaatc 360  
 tagatcatga agaatttcat tctttattaa tcattccatc ctttctctag aaatgtgacc 420  
 taaacgttta tgccacaaga aagcagatcg gtcattcact aaactacgtt tagtgataac 480  
 attatgatg 489

<210> 9468  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <400> 9468

agcttatcaa accaaagcaa cttctatcta gaacaacttg aagagctata ttagaagaaa 60  
 tttcaattgt tgaaatgtat agtaagtcgg tcatctagt acagcataac aaagtcacaa 120  
 atactagtac taagttgaag aacatattgc agtatcgagt gtttgctggt tacatatttt 180  
 cagggtatat acctggagga gttccacaac acatattgag gtcacataa tgctcaactt 240  
 caagaccaat gaaccatgca ccaagtgaga catcttcatt agcatattta tgcaaaatcg 300  
 gcctgcaatc ataattagac tccacatgaa atttctatat gtaagagaat attctatgag 360  
 aaacatggac tgatccccga actgagattt cctatttaga aaactttaag tttatgaaaa 420  
 aaaaagtgtc tttattttta tcaaattctg caaaatgagt atttt 465

<210> 9469  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9469

tgtaggcact ttgaacgcaa tattctccat tattttccat cctccaaatg actattttgt 60  
 ttttgtacct tgcataatag gcacttgaag aatgggtatc acatccctta nattgaatat 120  
 ttgattaatc acatccatgt ttcaacttcc atgtgaagta tccataatat ttgttacttt 180  
 gagatttttc atcccattga ttataagagt ttcaatagtg agattttact tcattctcaa 240  
 ctagggttcg ttccaaatac caatattagt accatttccc aactttcatt tatatccttc 300  
 ctttatgacc attttagaag agaacatact tcaccatgta aatgatgggt tgtgccttac 360  
 taaagcttcc ataaactctc cccttaagaa atatttagct ttgatgactc ttgacagtaa 420  
 aacatttagc atagaaaaga tcctccatta ttgctttcct aacatggcaa agttgaaagc 480  
 aaat 484

<210> 9470  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <400> 9470

agcttttagg gttaaagtct cagcattgtc acgtgctcat gcaacaattg ttagtcgtgg 60  
 ctatatgaga catcttgcca aacaaagtca gggttaacgat aactcgcttg tgctttttct 120  
 tccattctat atgtagcaaa gtcattgatc caatcatggt tcatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttcaattgat tgcgcactctg gtcagagaaa tcaaatgttg tggtcctgtt tatctacggc 300  
 ggatgtaccg gttgaccgat acatgaaaat cttaaaaggg tatacaaaga atctatatca 360  
 cccaccaaca tctaattgtg aga 383

<210> 9471  
 <211> 493  
 <212> DNA

<213> Glycine max

<400> 9471

tatgtgagag actctataaa ttactctagc tggaacacat gacctcgcaa aatgccctga 60  
cttcccacat taaagcaggt gctttgtaca ccgacgcogt ggggtgtgatc acgaccaccc 120  
aatcaccctt cttacattcc gcattcccta cccctttctac ctacctcccc acacctaaaa 180  
ctacctccac ctgttccctgc accgccaatg ttgtccttcc cggggggcgca gaacctcacc 240  
atgtgtccaa atgcgccaca cctaattgcat gatccgactc catcagcacc tgaaatggct 300  
acaatgccgg cgtctcctgg cacacaatct cttatgaggt ggacgaaccc ctccgatttg 360  
aaacaacctc cgccgatgga gccttaaccg acaccagaaa taccgctcct gttgcaatcc 420  
ctggttaggg gtacaaactt gccaaactgg tagcacgcgg agccgcctcc gacattgggc 480  
ctggcgccga aac 493

<210> 9472

<211> 439

<212> DNA

<213> Glycine max

<400> 9472

agcttcgaaa ttgtggatga gccaacatg aaattgggac aatgaatctt gtccctgtttt 60  
caccaacata cactgcaaag tgcccttttg gcacatcttc tggaagacca ccctcttcat 120  
tgaagccctg ttgctgcttt ttcccaaagc tcgaacacct tctcacaatt tgctttatca 180  
catctgctag ggagagctga ttggattttt agatggccat tgtgaaattg attgacagta 240  
ctctttgcac accttgaagt tgtaacttt gaaagggctc cttgagggcg ctgaaagtgt 300  
gtgattcatg gggcgagttt ggagaggctt tatttatcgt tgggacattg ggatgggtgg 360  
aaaatagaaa cttgagtttt aaaaaaaca cgggtcacgt tgatgtgggg acatgtatca 420  
taccacaccc taatgactc 439

<210> 9473

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9473

tgtgggattt tgtgatagtg attttgccgg agatgttgat gatagaaaa gtactaccgg 60  
 atttgtattt tttgtgggtg attgtgtttt tacatggaat tctaaaaaaa aaggcattgt 120  
 gacactttct acttgtgaaa ccgantatgt agctgcaact tcttgacat gtcatgccat 180  
 ttggctaaga agattgttgg aggaacttca gttgttgcaa aaggaaagca caaagatcta 240  
 tgttgataat agatctgcac aagagcttgc caagaatccg gtgttccatg aacgaagtaa 300  
 gcatatagat acaaggatc atttcattag agagtgcatt accaagaaag aagtagaatt 360  
 gactcatgtg aaaactcaag atcaagttgc ggatattttc accaagcctc tcaaatttga 420  
 aaattttcga agattg 436

<210> 9474  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<400> 9474

tgaacaattc atactcaaaa tgattgttag tcttggaag cttgggtgct aggctctacc 60  
 atcaaaaatt gcatgggagc aacttcatgt ttttgcaactg catgcatttt tgttgccatt 120  
 tctccaaca ccttcatttt ctacttttcc agctccttat gtctatgccg tttcttctcc 180  
 aatttttggg caactgcaac ttcaatgctt ttcttttaaaa acttcttcaa tgtaaagtgt 240  
 atcttctaca atttttcttg tccaagaaaa actcaaaaca atgggtgatgt ggaaaggaaa 300  
 aataaatcct tacaagagat ggctagaaca ctgattagtg agtatagcat acaaaactat 360  
 ttttgggaag aagttgttag tatagtctgc tacattctga atagagtttt tatcagaaaag 420  
 gttttgagca agactcttta tgaacttggg aaaggaggaa aaccaagtgt atcttacttc 480  
 cacatttttg gt 492

<210> 9475  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 9475

tgtaggccta aaatcttctt catcaatgga ttcctttgct tcttggaaga taaatggcag 60  
 cggaatggag aaggaagaga gagaggagat gccactttaa ggaaaagatt agtctagaag 120



aagctcacca ccataggagg ccatggataa gagcttggag gaagaaggag atgaatgaag 180  
ggagaaggag agaagaacac gaaatttgtg ctctaaaaga gctctgaaat ctgaagttaa 240  
tattcaaattg atcaaagttc aaaaaaatgc accacacatg acctctatct atagcctaag 300  
tgtcacacaa aattggaggg aaatttgaat ttcaattcaa atttcacttg aatttgaaat 360  
tgaatttgtg gagcccaact ttggaacca aatttcactt aattatggat tagggaattt 420  
tagttatgg 429

<210> 9476  
<211> 504  
<212> DNA  
<213> Glycine max

<400> 9476

agcttcttat ccaaggctca tcttgggtgt gaagctcctt cttccatgac ttattcccta 60  
gtggatggca cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag cttccataga agccccacaa 180  
gcaagcttcc atcactgcct ttgaggatcg aggatagacg aacaaagcac ctaagaagga 240  
aggaggttcc attggtcaag gtgacctggg gaggtacatc aggagaagat gccacgtggg 300  
aattagagag tcagatgcaa gccgcctatc catccttggt tgagtcaagt aaatttcggg 360  
gacgaaattt ctaaaagggt aggagagttg ttacaccctg agatattata agttattttc 420  
gatgtttaat tgtatttatg tgttatttga ctatatgata gacttgaatg agttaagtat 480  
gccttgacct aaatcatgtg tgaa 504

<210> 9477  
<211> 452  
<212> DNA  
<213> Glycine max

<400> 9477

tatcccatgc ttctttggct gtcgttgogt tggatatctt ctcaaagtga tcttcatcca 60  
ccgattgatt aatgagaaaa agagctttct tgactctctt tcttgactcc ttcaacgtct 120  
cctttacacc ttggcttacc aaggcttcat cttgctcttc gaagccattc tctacgatat 180  
cctacacatc ttgagctcct tgatactcca attatcatag ctgttctttg agagcatcgg 240

catttggaag ggaaacctc cattcgccat cttttgagga tcttgaagct ctgataccac 300  
 tttgttggaag ataaggcttt ttatgttttag gaaaagtgtt tatgaatatt ggagactttg 360  
 aatagaacct tgatagaaag gagaattctt tatggaggag agaactttgt atttttgctt 420  
 gataccaatg tgtaggatta catctctatt ta 452

<210> 9478  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 9478

ttgagaattt gagaacatga caaaaacaag tgacagtaat atccaagata taaaaatggg 60  
 tgttggtcaa tgtaccacat ttaatagtac aaactaaaag aacaagaaaa acagaccaat 120  
 ttctaggcgt ctcagaaaaa acttttaaaca agacagttca cctaataagt ttttggatta 180  
 gtagtaatca tttttgtgta aataaatagc ttaccagagt tcattggact ccatcgctgg 240  
 aaccgaaaag gagatggtat gttgagaaca gaagcaccag aaacactgtt atgcctggaa 300  
 atgggaagat attgcctccg gaaaaacctt ggcattccat tgccaatata tgataaagca 360  
 caaagaagaa gaattaaaga aagcaacaaa aggggcacaa gaacaagagg atttatcttc 420  
 atctgaaaaa gctccaagtc acgaagccca aatct 455

<210> 9479  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9479

agcttcaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaaga ggtatgccta tgttggtgtg gatgatttct 120  
 ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
 agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240  
 atggcagaga gtttgaaaac ggcaagttta ctgaattctg cacatctgaa ggcatcactc 300  
 atgagttctc tgcagccatc acaccacaac aaaatggcat agttgaaagg anaaacagga 360

ctttgcaaga agctgccagg gtcatgcttc atgccaaaga actttcctat aatctctggg 420

ct 422

<210> 9480  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 9480

agcttttaat ggaagtcaag agcacgaaac tgcgcggaca ccgttaactg gtgagcaggt 60

cttccagcgg gttgaacacc ttaatactgt atttggaaag acccaaaaga aggataaaag 120

taagagttgc atatggaaga aaagggtccat tttctttgat cttccgtact ggtctgatct 180

agatgttaga cattgtattg atgttatgca tgtagagaaa aatgtatgtg acagtgtcat 240

tgggacactc cttaacattc agggcaagac gaaagatggc ctaaataccc gtcaagatct 300

agctgacatg ggcatacgat cgcagttgca tccaaggctc gatggtaaaa aaatatactt 360

gcctccagct ggtcatactt tat 383

<210> 9481  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 9481

tcaacattca atatcgagcg tttcgattta ttactgggct gaatcagaca accgagtaaa 60

aagttattgt agtttgaagt tgctcagagc ttcaactttc aatatcgagc gtttcgatat 120

attacgagac tgaatcagac atcagactaa aaagttattg tcgtttgaat tatgtcagag 180

cttcggtatt ccagttcgag cgtctcgata tattacggga ctcaatcaga catctgagta 240

aaaagttatt gtcgcttgaa tttgctcaaa gcttcaacat tcaataccga gcgtctcgat 300

atactacggg actcaatcag acatccgagt aaaaagttat tgacgtttga atttgctcag 360

agctttggaa ttcaagttcg agcgtctcaa tatattacgg gactcaatca gacatccgag 420

taaa 424

<210> 9482  
<211> 337  
<212> DNA

<213> Glycine max

<400> 9482

agctttgagc aacttcaaac aacaattact ttttactcgg atgtctgatt gagacccgta 60  
atatctccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacgataag 120  
tttttactcg tttgttcgat tgagtcccggt aatatatcga aacgctcgaa attgagaacc 180  
gaatctctga gcaaattcaa acgacaataa ctttttactc ggatgtttcg attgagtccc 240  
gatatatccg aacgctcgaa attgaatggg gtacctttga gcaaattcaa acgacaataa 300  
ctttttactc ggttgtctga ctgacacgcg taatatt 337

<210> 9483

<211> 493

<212> DNA

<213> Glycine max

<400> 9483

tcctcaagtg tcacattctc tagcctcttt gttgagcatc tgttgagcag ataggctggt 60  
gttgacacta cttcacccca aaactccttt ggcaagtcaa aattccttag catacacctg 120  
gtcatgttga ctatggttct attgagtctc tcagatacac cattgtgttg tgggtgtatat 180  
gaagggtgga tctcatgaat gataccctca tcctcacaaa atttctcgaa ttcattgtgat 240  
gcgtattcac caccaccatc tgatctgagt ctctgaatcc tgtttccact ttgtgttttt 300  
accatcacct tgaatctttt gaagggtgaaa aacacttcac tcttcttct tagcaagtag 360  
atccacactt ttcttgagta atcatctata aaggacacaa aatatgaact accccctaga 420  
gaaactttct caaaagggcc acacacatca gtatagacca aattcaaaac tgctgaaaac 480  
ttagttggta ctt 493

<210> 9484

<211> 485

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9484

agcttaaagg aagtgaaaga attagtatgg gcaaaaatgt ctccgcattg attggtaaatt 60  
ctgttcccca aatccctgaa aaatgtaaag atccaggtac attcatcatc ccttgtatta 120

tagggaacag taagtttcac aatgccatgc tagatntag agcttctatt agtggtatgc 180  
ctctttctat ttttaattct ctatctcttg gtcctttgca gtcaactgat gtggtaattc 240  
atttagctaa tagaagtgtt gcatatcctg ctagtctcat agaggatgtc ttagttagag 300  
ttggtgaact gattttccct attgattttt tatattttga atatggagga gggattttct 360  
aagggatcag ttcccattat tttatgcaga ccttttatga aaactgcttg aacttngata 420  
gatatatata tgcaagcaca ctatctatgg aggttgatga tataactgtt cttttaatat 480  
tcttg 485

<210> 9485  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 9485  
agcttgaaga caagactata cgaggtatct tccttgggta tagcaatata tctaagggtc 60  
accgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatgtt gaagttgatg 120  
aatatgcttc atggaattgg gatgaagaaa aagtggagaa gaacgttctt atactcgttc 180  
aactacctca agaagaagat gaggaagaaa acccaggtga accaccttca cctccatcac 240  
aacaacaaga agagatggag tatccataca gaaaaatttg caccagtagc tcgtcttaat 300  
aagacaaagc tcaactctga tggcaccata cagaaacaca aggcgaggct agtagctaaa 360  
ggttacttac agcaaccgg aatcgactac aatgagacat t 401

<210> 9486  
<211> 495  
<212> DNA  
<213> Glycine max

<400> 9486  
tgataagaat ggatcgaact cctctccttt aaaataacag aattaatggt aataaggagt 60  
gatatttgaa agaaagccac aacatttatt tttcttactt atttaaaagt taatttacaa 120  
agtaaaaaac ttggaacaat tcgtttaata ttaattagat cttgacttta atatcttcaa 180  
attaattctt ttaaaaaaaaa tatcttcaca ttaatgtgca tgaaacaaaa caaaaataat 240  
tcaattaaag aaacatctac cttataattt tagagataat tggcgattcc cgatataaaa 300

tacaaagaca gtcgactttt caattttttg gtagatggca aatattggat ttggtctttc 360  
atagaatttc aatgaactca aagtattcct ggtaaggtaa gtatttttgt acattgaaca 420  
tttttttata catataagtt taaaaatatt taaaagaaga ttaatttaat tgatataatg 480  
ttaaaaaaaa tgaat 495

<210> 9487  
<211> 453  
<212> DNA  
<213> Glycine max

<400> 9487

agctttgcat acttccccgc cgcgtttaga agatcacccg cggcgctccgc caactttgcc 60  
ttgtccacct tgctcgtctc cctcttttagg gcggactgcg ccgcctccgc caccagcttc 120  
gcgctcgcga tgagctcggg ggtcgcactgc tcgctgggtg gcttaatgtt atgggattct 180  
tcggaagcca ttgatacaat gttacttgct tattgcagct tttgagagaa ctgttctgtg 240  
ttatttatag atgtcactat gatattagta taaaagtgt tctttcaaata aataataaac 300  
tttatattta attatttatt tacttgctat agcctctaaa tttatctttt tttaatcctt 360  
aaaagaaatt ttttaagttta catttttaaat tattaataaaa tagaatattt ggtgttaaaa 420  
gtttaacaaa ttttaataata ttaatccttt tta 453

<210> 9488  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9488

tttagcaaca tttttattta atgttattga aaaaatattc ctaaaagcca catgtgtagt 60  
agtgataaat catgcatctt aatcgttatt ttgaatagaa taagaaattt tagcaaagag 120  
taaagagaaa tacaaacaag aaagtctacg cacaatgaag tgcagaaaaa aaaactaaga 180  
atgcaacaag aatgcccaat cccatttatc atagagctta gtgaatctaa gattcacatt 240  
ggttccaaac actaaagaat taagtttagt aattttggaa atcattgagt actatttggt 300  
atatttattt gaatgcattg atgtgttaat aatattattg aatgctttct ttattgagaa 360

tattacatca ataaattgtg gttgatcttt tagaatttat tttattcact gggattaatg 420  
 ttgaaagtga ggagacttga acacttagtt ttcttttaat tacatttggt tcagaatana 480  
 gtgtacgatg tgg 493

<210> 9489  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <400> 9489

agctttagg cattggatat tctttattaa tggagtcatt tgcttcttga tgttcattgg 60  
 cagcagaatg gagaaggaag aaagatgatt ggagacacca cttcaaggag aagatgagtc 120  
 aaacacaggc tcaccaccat aggaagccat ggataagagc ttgaaggagg agaaaatgag 180  
 gggaggtaga aggagagaag gagcacgaaa ttttgtatct caaatgaggt ctgaactttg 240  
 aattataatt ttcaaatgat caaagttgaa aaaacgcaca cacctggcct ctatttatag 300  
 cgtaagtgtc acacaaaatt ggaggggaaat ttgaatttct attcaaattt cacttgaatt 360  
 tgaaattgaa tttgtggagc ccaaaatttc actaaa 396

<210> 9490  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
 <400> 9490

tgctttgaga aaaatctaac gacattttct ttttaactcg atgtctaate gagccctgca 60  
 atatatcgag acgctcgtaa ttgaaaacgg aagctctaag aaaagtcaaa cgacaataac 120  
 ttttaacttg gatgtctgat cgagccctat aatatatcaa gacgctcgaa attgaaaacg 180  
 gaagctctaa gaaaagtcga acgacaataa cttttaactc ggatgtccta ttgagccctg 240  
 taatatatcg agacgctcga cattga 266

<210> 9491  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <400> 9491

ttgatgcaac atttggagag gttaatgaaa caaccagatg atgcgctcca tgagaggttg 60  
 gatcaaatgg agaatagaga tcataatgaa gaacaaagga ggagaaaagg gaatgattgt 120  
 gttcctagac aaaaccgaat tgatgggtatt aaactcaaca ttcctccatt taaaggaaaag 180  
 aatgatccgg aggcctacgt tgagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
 aactttgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctacc aaaggagaga gccagaaatg aaaagccaat ggttgattca 360  
 tggacggaga agaaaaa 377

<210> 9492  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 9492

agcttatgac cattcgaatt tctcatgtag tttccgctgt tcaatttcga gcgtgtagat 60  
 gagttatgtc cccgaatcgg acatctgtgc gaaaagttat gaccattcga ttctctcgag 120  
 agcttccggt gttcaatttc gagcgtctcg atatattatg accccgaatc ggacatctga 180  
 gtgaaaacgt atgaccattc cattttctcg agagcttccg ttgctcaatt tcgagccgtc 240  
 tagatgaaat atgtccccc atccaatcat ttctagtga aacttatgac cattcgaatt 300  
 tctcgagagc tctctgttgt tcattt 326

<210> 9493  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9493

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 aattcgtggg gctccagact cgatgctgga ggatgcatga atgataagca tttcataggg 120  
 ctccggataa gatttgaagg tggaggatac acgaacaacg ctaggcaacc aattcgtggg 180  
 gctccagact cgatggtgga ggatgcgtaa atgacaacca attcatggaa ttccgaaaaa 240  
 gatttaaggg tggaggatag acgaacagcc cctagaaatc aattcgtagc gctacagact 300  
 cgatggtgga tgatgcctga atgatttgca ttttaaggag atccggataa ggattgatgg 360



tggaagaaaa aagaaaaccc tctaggac

388

<210> 9494  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 9494

agcttgggtcc ccaacactct gttcaagctc tcccaaaatc tagaggtaaa tctaggatct 60  
ctatcagata ctatgctaga tggcacacca tgtaacctga caacctcact tatatacaag 120  
gtgggtcaact tcttcaagga aaatatgata ttaatgggaa cgaagtgagc agacttaatc 180  
aatctgtcaa caataaccca gatagaatct aaacctctag gggtcctaag tagtcctacc 240  
acaaaatcca tggaaatact gttccacttc cactggggta tc 282

<210> 9495  
<211> 490  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9495

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cctcttcccc atgtctacca cacagcttgt ggtggataga aaaggtcttc caagaattaa 120  
gggaatgtca gcattctcat caatgtccat cactacaaaa tcagctggaa agatcaaatg 180  
tttgacctta accaaaaggt cttcgatcac tccatatggg cttgtgaatg agcgaccaac 240  
catttggagg gtcattcggtg tggcaattat ctctatctct ccaagttgcc ggcacatgga 300  
gagagggcat taattgatac tagctcccaa gtctatgaga gctttacca caaacaccct 360  
ttgccaatgg aacatgggat agtgacactt tccggaatct ttgtgccttt aggggaaaga 420  
tgcgttgaat acccacacta caatttcctt tcaatactaa tcataccctg gggatttccc 480  
ggtttttttt 490

<210> 9496  
<211> 610  
<212> DNA  
<213> Glycine max

<400> 9496

agcttgtaat aaataaataa aaacaaagtt ctttacaagt ctttacttaa aacggaacaa 60  
 ggaattaaag aatgaccaag cttgattaca cacactccct aattgttttg tttgttggtg 120  
 ctataattag atcatgtctt acaaaaagga gatctaattt aagaacattt aaatacaaaa 180  
 gtgtcatctc ttacttttta tctctagtat gaattatata ataacatcat atttacgttt 240  
 aattatttga cattcgaatt aataaacttt aaatacaaag aaatttaaag tggatatggac 300  
 gatcgacca cagaaatatg taatccttta acttcaaatt atgtagcatg aaaaaatcta 360  
 aaataacaag aatgggttagt ttactgaaaa gatcctatta taattcgtaa agtgaactaa 420  
 tcaatattta taaatacgag tttttatttt agaacatata taatatattt taatcttggg 480  
 aaaagtgtga ctttatcatt atttaataata ttaaaacctt aaagctaatac aatttttttt 540  
 tacattatta tctcccaaaa aaattatcct aaattttttt atggaaaaaa ttttttaaaa 600  
 ttttagctttt 610

<210> 9497  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 9497

tcacatgatt gatagtgggtg ttagatttgg tcaatttgaa ggcaagatat gggaggagtg 60  
 ataaaaatttt cactgaattg cttgtgttgt tgaagaagat gatccctaaa gataacaagt 120  
 tgttgaatat tcactatgag gtgaagaaaa tactatgtcc tattagtatg gagtaccaga 180  
 aaatacatgc atgccttaat gattggatac caaaaaatga gtttgcagaa atgcataagt 240  
 gccctacatg tggggtatcg tgatacaaag tgaaggatga tgactacagt aatgatgaaa 300  
 gcacacaaaa aaaccatcca acaaaggtgt gttgctatct tccaataatt tcaatgctta 360  
 agtgattctt tgcttatgga g 381

<210> 9498  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9498

agcttttagtt gcccttatt accttaaata aacaaagcct gtggttaacta tgaattcaca 60  
aaggtatcac aattaaagaa attcaaatac ttcaaggatt gcagacaatg tggtcacaac 120  
taaaaaattg cagagctaaa aacttctaac taaatgctta ggtgtaacat aaatgggaaa 180  
atcaaaattt tgatacttac tgggtatagt tcaaaatcaa tatctggccc aatgtttaat 240  
atgttcagaa cctcagcttt tgccaagtca tcctatttaa cacttggtcaa gaactcattg 300  
atgctctctc ttgtttgaac agaggcagca gtgtcaacca aataatcata aacctgctag 360  
atatacaaca cattcatcta ccaaataaaa cttacaagta ttcctattta ttagaaaaac 420  
caaatctaac cttgtatnca gactatgcta ctttggc 457

<210> 9499  
<211> 490  
<212> DNA  
<213> Glycine max  
<400> 9499

tgtaatcgat tacacacaaa ctgtaattct attaccagag catattttca gaaaatattc 60  
tcaacagtca catcttttta tttggttctt gaatggctat caaaggccta tatatatgtg 120  
acttgagaca cgaatttgaa aagagttttc caaaacaaaa aggtcttatt ctcttaaaaa 180  
gcaaaatcca tttatcctct tacaaattcc ttggccaaaa cacttgatgat tcaataagga 240  
attatttgag tgctcaaatt gttcaatcta tctctttcaa gagagatttc ttcttgtctt 300  
cttctttatt ctgaaaaggg ataaagagat cgagggtctc ttgttggtgaa agaattctaa 360  
acacaaagga aggattgtcc ttgtgtgttt aaaacttgta aaaggaattt acaagatagt 420  
ggaactctca agcgggttgc ttggggactg gacgtaggcc ccaagggtgtg gccgaacca 480  
gataaatctg 490

<210> 9500  
<211> 440  
<212> DNA  
<213> Glycine max  
<400> 9500

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ggcatcttgt tctgaacttt gcacatttat gatgttcttc atgtgctttg actgattcaa 120

caagtcttta caagccttta ttgcattgat atgtggcgag caaggactat ctccaatgtg 180  
attaacaaat gcacaatttt ttcagcatta acctttctac atgatctaaa tccttgtata 240  
ttaagacatt tgatccaaaa atgatcactt tgctttgtac tgaatagatc gcataacaga 300  
cagttaactt tatcattaaa tggggaatac tttatcccaa aatgaaacat tttaaaccaa 360  
gtacattgga aatgccttgg atcgttctct ttaaaaaagg gtaattttgg aattttattt 420  
ggtatggacc ccctttgata 440

<210> 9501  
<211> 313  
<212> DNA  
<213> Glycine max

<400> 9501

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ataactattc acacggatgt tcaattatgg cgaatcacat atcgagacgc taaaaattga 120  
acagcggaag ctctcgagaa attcaaatgg tcataacttt taacactgaa ttccgattca 180  
ggattataat atatacagac gctcgaaatt aaacattgga aggtctggag aaattcaatt 240  
ggttataact tttcacacgg atggccaatt cgggcgtata atatgtcgac acgcttgaaa 300  
ttgaacaacg gaa 313

<210> 9502  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 9502

ttgatgcaac atatggagag gttaatgaaa caacgagatg atgcgctcca tgagagggtg 60  
gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggg 120  
gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcttcatt taaaggaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgccac 240  
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccca ctatgctctt 300  
gggtggtgga accagctaca aaaggagaga ccaagaaatg aagagccaat ggttgataca 360  
tggaaccgaga tgaaaaagat 380

<210> 9503  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 9503

agcttataat atattattac actcgaaatt aaacatcaga agctctcgag aaattcaaat 60  
 ggtcataact tttcaccgga atgtccgatt atggcgaatc acatctcgag acgtcAAAA 120  
 ttgaacaacg gaagctcttg agaaattcta atggtcataa cttttaactc ggatgtccga 180  
 ttcaggcgca tcacatatag aggcgctcga aaaggaacaa cggtagctct cgagaaattc 240  
 tcatggatcat aactttccac actgaggggc gattaaggat tataatacct cagcagctc 300  
 gcaatttttc actcgtaagc tctcaagaaa ttca 334

<210> 9504  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 9504

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 ctatttacag attgggaatg cctctaacaa cacttttgac aatgattttt ttcatacctc 120  
 ttaaagtcca atgtccaaat ctttgatgcc ctattttgac ttcattctct ttggagaata 180  
 gacatgtgga ggaataactg gcttcttgag gtgtccatag gtaacagatg tactttgatc 240  
 tgetgccctt cattataact tcaactctct tatttgtgaa caagcattct gactttgtga 300  
 agttcaaatg gaatccttta tcacacagct gactgatgct gatcaagttt gcattcagtc 360  
 cctttaccaa caagactttg t 381

<210> 9505  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 9505

agcttgagaa actcatccaa ttccacagta tacaccatca gatgaaaccc aatgaaaatt 60  
 ttgaagcaac tgagcgagcc aaagatgaac cgaggccaaa ccaagggcct tcccaggaca 120

cactcttctt ccagaccga aagggtgcaa cctcaaatca gacccatta tgctcacatc 180  
 ctcttccaca aaccgctcgg gcctaaactt ctgggctcg gccacaccc tctcgtcgtg 240  
 ggttatggcc cacatgttca ccatcgcggt ggtgcccttg agaatcacgt gcttgccgcc 300  
 aaccgtaacg tctgtcacag caagggcagc ccacgagagt agcgggcctg gtgggtgcac 360  
 acggagggtt tcttttacta tgcactgaag ggagcgcagg ttt 403

<210> 9506  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 9506

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 ttcacccgac gaagacactg acaaaaactt atcttctcct tcttgacaa agtatggcag 120  
 gctgggggca agtaaatctt cttcccatca gaccttgat gcaactgtga tcttataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccaccttctg tcttgccctg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctcccat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt cttccatag 360  
 caactctgaa ctttatectt cttttgggtc ttcccaaata cagtgtttat gtgttgaacc 420  
 cgctgatata cc 432

<210> 9507  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<400> 9507

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 ctccaatctt taatggagag gggtaccatt actggaaaac ccaaatgcaa atttgtattg 120  
 aggcaataaa cctaaatatt tgggaagcca taaaaatagg gccttatata cccaccacag 180  
 tggaaagaat tacaatagat ggcagttcat caagtgaag tataacttta gaaaaacct 240  
 tagatagatg gtctgaagag gatagaaaac gagtacaata caatttaaaa gccaaaaaca 300  
 taataacatc tgccctggga atggatgaat atttcagggt ttcaaattgt aagagtgcta 360

aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgta aaaagatcta 420  
agataaatgc cctaactcat gagtatgaat tatttagaat gaatgcaaat gaaaatattc 480  
aaag 484

<210> .9508  
<211> 399  
<212> DNA  
<213> Glycine max  
<400> 9508

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cttccgctaa atccccatgc gagaatggag ttctaacatc taactgctcc aagtgaagat 120  
tctttgtagc tacaatactc agaataactc tgatggtagt catctttaca actaaagaga 180  
agatctgtgt gaaatcaatt ccttgttctt gctgaaaccc tttcaacaca cgtctcgctt 240  
tgtatcttct tctaccgtca gattcttctt ttagcctata caccactta ttctgtaaag 300  
ctttctttcc ttctggaaat gtaattaaaa accatgtctt attcttctga agggatgaca 360  
tctcatgttt cattgctagc tcccactaaa tagagtcatt 399

<210> 9509  
<211> 420  
<212> DNA  
<213> Glycine max  
<400> 9509

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gcaagttgaa agccttggag gaaagaggta tgccatggtt gttgcggatg atttctccag 120  
atttacctgg gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180  
gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaattagga gtgaccatgg 240  
cagagagttt gaaaacggca agtttactga attctgcaca tctgaaggca tctcatga 300  
gttctctgca gccatcacac cacaacaaaa tggcatagtt gaaaggaaaa acaggacttt 360  
gcaagaagct gccagggtca tgctttatgc caaaaaactt ccctataatc tctgggctga 420

<210> 9510  
<211> 303  
<212> DNA

<213> Glycine max

<400> 9510

acatctaact gcttcactag aggatacttt gtagctgcaa gtctcagaat agctctgatg 60  
gtccatatct tgacaactac aaagaacatc tatgtggaag agattcctcg ttgttgctga 120  
aaccctttca ccacaagtct cgccttgat cttcttatac cgacagattc ttccttttagc 180  
ctatagaccc acttattctg taaagctttc tttctttctg gaaatttcaa tataaaccat 240  
gtcttattct tctgaagggt ggcattctatt tttattgtag ctccactaat agagtcattc 300  
cct 303

<210> 9511

<211> 280

<212> DNA

<213> Glycine max

<400> 9511

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acaatttcga acatcgtgat atattataag cctgaatcgg acgttcgcgt gaaaagctta 120  
gaccatctgt atttatcacg agcttacgtt gttcaattac tagccccttg acactttatg 180  
cgctgaatc ggatatccct gcgaaaagat atgaccattt gaatatctgg acagcttttg 240  
atgtttaatg gcagcgtttc aatttattat tagcccgaaat 280

<210> 9512

<211> 373

<212> DNA

<213> Glycine max

<400> 9512

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acgttattgt cgtttgaatt ggctcaaagc ttcaacattc aatttcgagg ttctcgatat 120  
attgcgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaaa tggctcggag 180  
cttcaacatt caatttcgag agtctcgata tatgatggga ctcaatcaga catccgagta 240  
aaatgttatt gtcgtttgaa ttggctcaga gcttcaacat tcaatttcga gggctctgat 300  
atttaccgga ctcaacagac atccagtaaa agttattgtc gttgaatggc tcaagcttca 360



acatcaattt cag

373

<210> 9513

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9513

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tccatatgtc atgtgcctga atcggacctc cgtaagaaaa tttatgacca tttgaacttc 120

tctagagctt ccgttggtta atttcgagct tctcgatata tgatgtgcct gaatcggaca 180

tccgagtga tagttgtgac aatttcaatt tctccagagc ttcggttggt caattttgag 240

cgtctcgata tgtgatgttc ctgaatcgga cctccgtgtg ataacttatg accatttgaa 300

ctgctctaga tcttctctggg atcaatttcg ggcgtttcca tatgtgatgt gcttgaatcc 360

gacctccgtg tgaaaagtta tgac 384

<210> 9514

<211> 395

<212> DNA

<213> Glycine max

<400> 9514

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attatgacct ttcgagcaat agatacaatc cagggttgag gaatcatcaa tatctgagat 120

ggacaagtc tccataacaa caataacctg tccctctttt ccagaatggt gctgggtccaa 180

gcaagccata tgttctctct ccaatacagc cacatgttgt aggaagtaca tatacttttg 240

acttgcttta tgaggtacag gctaaggaac cttcttcttc tctaccctg agtctctcca 300

ttgggtcaacc accaccaca ccagagttga agcccttacc agctaacctc aattatgctt 360

acttgaggga caaggaaata gttccagtga tcatc 395

<210> 9515

<211> 378

<212> DNA

<213> Glycine max

<400> 9515

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 taagtgtcac acatggcctc tatttattca aatttcactt gaatttgaaa atgaatttgt 120  
 ggagccaaat tttggagtca aaatctcact aattatgatt actgaatttt agctatggtt 180  
 cagctcacta atccaagatc aagtccaaga ttctccacta agtatggtta ggtgtcatga 240  
 ggcatgtaaa acataaaaga catgcacaaa gtgtgactat atgatgtgac aatgggggtgt 300  
 agcaagcaaa tgctcacctc cccctctaaa attaaatgga tgggcttctc tcaattaatt 360  
 aaatttattc caaccaca 378

<210> 9516  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9516  
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 ctcatcacc cttacagatga ttgaaaaaaa ctcttaattg aagtcaaagc acgaaaactgc 120  
 gccgataccg gtgactagtg agtaggtctt ccagtgggtt gaacacctga atactgtatt 180  
 cggaaagacc caaaagaagg ataacagtaa gacttgcata tggaagaaga ggtccatttt 240  
 ctttgatctt tctgtattgg ctgatctaaa tgtagacat tgtatcgatg ttatgcatgt 300  
 agagaaaaat gtatgtgaca gtgtcattgg ggcgctcctt aacatttaag gcaagatgaa 360  
 agatgggtctg aatac 375

<210> 9517  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 9517  
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 ctattttcag attgggaatg cctctaacag cacttttgtc aaggattttc ttcattgcctc 120  
 ttaagtgcag atgtccaaac ctttgatgcc atattctgac ttcattcttct ttggaggata 180  
 gacatgtaga ggagtagctg gtttcttggg gtgtccatag gtaacaattg tcctttgatc 240  
 tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300

agtttacatt gaatccttca tcacacagct gactgatgct aatcaagttt gcagtcagtc 360  
ccttcaccag cagtactttg ttcagactag gaagttcatc atgaactagc tttc 414

<210> 9518  
<211> 384  
<212> DNA  
<213> Glycine max  
  
<400> 9518

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ttacaaagtt gagctgcccc gtgagtataa tgtagttcc accttcaatg tctctgattt 120  
atctcttttt gatgcacatg gagaatccga tttgaggaca aatccttctc aagagggaga 180  
gaatgatgag ggcacatgacca atagcaaggg caaggatcca cttgaaggac ttggaggacc 240  
tattgatgag gacatgacca acagcaaggg caaggatcca cttgaaggac ttggaggacc 300  
tatgacaagg gctagagcaa ggaaagccaa tgaagctctt aacaagtgc gtccatacta 360  
tttgaataca gcccagtttc agga 384

<210> 9519  
<211> 409  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9519

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cttatcacc gtatcgacga ttaaagaaag cttttaatga gagtcaggaa aatgaaagtg 120  
ccccaaaacc attagctaga aaagaagtgt atgatcgggt caaggacata gtaactatca 180  
ttgggaaaac ccaaaaaaag ccatcatctg agacaaacat atggaagaaa aggtcaatat 240  
tctttgatct tccatactgt tctaactctt atgttagaca ttgtatagat gtgatgcatg 300  
tggagaaaaa tgtttgatgat agtttaattg acacccttct taacattaaa gggaagacaa 360  
aagatgggtt gaacagtcac caatacttgg tgaaatggga tccgacatc 409

<210> 9520  
<211> 388  
<212> DNA

<213> Glycine max

<400> 9520

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atagagctac agacgtcttg gaattgatac atacagacat ttgtgggtca tttcatatac 120  
cttcatggaa tggttaacaa tattttatat cattcataga tgattactcc agatatgcac 180  
acctgtatct tatacatgaa aagacacaat ccttggatgt gttcaaaaca tttaaagttg 240  
ttgttgaaaa tcaactcatc aaaagaatca atagagtcag atctgaccgt ggtggtgaat 300  
actatgtgcg atatgaacgg tcaagtgaac aacgtcctgt gccttttgcc ggaacctata 360  
gaatgtggaa ttttccatag ttacacat 388

<210> 9521

<211> 329

<212> DNA

<213> Glycine max

<400> 9521

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ccatggatgg atagtgtctg ccatccatac actctcattt gtctggtaac ttgaacacat 180  
cccttttttg tctccataaa tattaaaatt cggctcccg tccatcacttc ttttagcagc 240  
ctgattttatc tacattttca agctaaagtg ttaatttggg aagaaaaagc atcaaacact 300  
gtcgggtctat tattattgat gacgcaaac 329

<210> 9522

<211> 337

<212> DNA

<213> Glycine max

<400> 9522

acaaatgggt gttggtcaat gtaccacatt taatagcaca cactaaaaga acaagaaaaa 60  
cagaccaatt tctaggcgtc tcagaaaaaa acttagacaa gacagttcac ctaataagtt 120  
tttggaatag tagtaaacad atttgtgtaa atacataacc taccagagtt cattggactc 180  
catcgctgga accgaaaagg agatgggtatg ttgagaacag aagcaccaca aacactgtta 240

tgcttgagaga tgggaagata ttgccctcgg aaaaaccctg gcgtccaatt gccgatacat 300  
gatagagcac aaagaagaag aatataagaa agcaaca 337

<210> 9523  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9523

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gatatgatgt atttaaggta tgaaaagtct ttatacctaa aaaatgtttt aaaaaaatat 120  
ttcttaattt atcatgatat ttgtgtaaaa tattttattga taatgaattg ttattaaata 180  
actagctggg actgtttttt ctctagtttt acacaataac tgataaacca aaaggcctaa 240  
tttgagaaat ataagttata caaaccta at gaacacttat aatatattat gccataaaaa 300  
tatattta at tgtatatata ttagaaaatc tccaaccaat aaatccatca taggttttctt 360  
atttaaagag aattttatct aatacatctt agagtaaata ac 402

<210> 9524  
<211> 442  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9524

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aatctctgga tgaagcaaca actagaagac tttggggtaa ctcttgatta cattcctcta 120  
aaatatgata acaactgtat aagaatcctg tcatgcattc tagaactaaa catatagaga 180  
ttaagcatca tttctaagag atcatgtatc taaagggtgat tgttgcatg aatttggttg 240  
tagtgaacat caactagcta acatctttac taaacctctt gctagaaata gggtcttcta 300  
gtcaagggtg tctacacatg tggtagtgtc gaccttgaag gtaatctttt ctttactatt 360  
aatggagtag acattgtcat agatgctgct gtgtgaaagg aagttattag tctggacatt 420  
gggtggagtcc gcaagtttga tg 442

<210> 9525

<211> 349  
<212> DNA  
<213> Glycine max

<400> 9525

agcttgcata caagattctc cttgcctggc acttcaaaac cttcttggtg ggtcatatag 60  
atgtcttcct ctaaattccc atgcaagaat gcagttttta catctaactg ctccaagtga 120  
agattctctg cagctactat gtcagaata actctgatgg tagtcatctt tacaactgga 180  
gagaagatct ctgtgaaatc aattccttgt ttctgctgaa accctttcac cacaagtctc 240  
gccttgatc ttcttctacc gtcagaatc ttcttttagcc tatagacca cctattctgt 300  
aatgccttct ttccttctgg caatttagtt aaaagaccac gtcttattc 349

<210> 9526  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 9526

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aaacatagat aatagataaa taagctcaga cataaaatgg aaaatatgtg cattactaca 120  
tttggcataa taagagccat gaagggttaa cctgtgggtg ggtataatcc cagtagattg 180  
taggaacttt cacataatcc atgttcttaa agttacttgc aaacaattct gcattagcag 240  
cctccttggg gtaatcaatc tctgaaaat tattaatcca tgttgagta acaggatccg 300  
agaatgtatt cgctgagaac acgtgcatac atcataccat aa 342

<210> 9527  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 9527

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ccacataaac taacagagca atgatagtgt tgaatccatg cttgagaaac aaagaatgat 120  
atgaagcaca ttgcttgtag ccatgtgaga ttgaaagaa agacagcctg gcataccact 180  
gcctgctggc ttgtttcagt ccatatagct aataacattc ttatgctgag gcatataagt 240

taaaacctta atctttgcat tcattgcctc tatccatata ggatccttag aagcttcatt 300  
ataggattga ggttcaagac tttgtgtaat ggataaaatg atattgtgat aagaaggaga 360  
caatttgcta tatgaaagaa caatattata ggatagagac aagta 405

<210> 9528  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 9528

attatggtgt gtaagaatga taaatggatg ccctaactta tattggcgcc attttcagac 60  
tgcagtgggtg atggcatgga gctctcggat atatgtggag gcgtgatgta accgggggca 120  
gaaaaacttg ctaaaataag ccaagggatg gccctgttgc atgagaacaa ccccatcgc 180  
gatacctgaa gcatcagtct taagtgtgaa tggtaatgaa aaatcatgga tggccaagac 240  
tggggcctgg gtcatggctc gcttgagtcc ctctaaagcc gattgagcac cctcgtccca 300  
atggaagtta tccttttgta aactgcggt t 331

<210> 9529  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 9529

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ccctatcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
tattgtgagt agcattttga aagacgcctc tgttcttgat gctgagaaag atgttccaac 180  
atcctccacc ccagatgttg ctgtccctga agctgatgaa gatgtcccaa catctttcac 240  
cccgaatgtt tctgtgcctg atgttgagaa agatgttcca acatctttct ggccaaatgc 300  
tgaagaactc tcttcccca gcaaagagag atcatcagag gaagatgatc aagcctcaga 360  
ggagaatcct gcaccacggg caccaaaa 388

<210> 9530  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9530

ggcacatgta cagacccatg attgtcttta ccagttgagc ctcagcctgc agagccatgg 60  
ttttacttct ttttcgtgcc ctactccgga ccagttcang gcagaggtcg catagcctgg 120  
agattggcct gagggccggg caggagaggc accagcagag gctcccgcag aggcagatga 180  
tgcccgcgag gacgaagaga tggtcgattt acttgatttc ttacgagggg gcgagaccac 240  
atgattggga gatccctgtg tccatatttc tttttgtttc cttttttctt gttatatatc 300  
atcttatttc tgcttgacta acggactaac gtttgttttc ttgatgtgtt gattgacttt 360  
tgtttttgac atacatatca tttgagttgg tacgtccgta tatgt 405

<210> 9531  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 9531  
agcttgttca cctccttttt caccacatct agaatgatgg gggtgagtcg ttgctgtggc 60  
tgcctcactg gcttagctcc atcctctaaa agtatactat gcatgcaggt agatgggcta 120  
atgccaggaa tgttttctaa agtccatcca atggatttct tgtgcttctt gagcactagc 180  
agcaacttct cctcttgctc agtagcaagg gaggcaaaga tgatcactgt aaatttttcc 240  
ttgtcctcaa agtaagcata cttgaggttt actggtaagg acttcaactc tgggtgtgggt 300  
ggtggctgaa cagtgggagg aac 323

<210> 9532  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 9532  
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cccgcgaag aactgacaa aaacttatct tctccttttt ggacaaggta tggcaagcta 120  
ggggcaagta aattttcttc ccattagacc ttggatgcaa ctgtgatcgt atgcccata 180  
cagctagatc ttgacaggta ttgaagccat ccttcattct gccttgaatg ttaaggagag 240  
tcccaatcac actatcacia acatttttct ccacatgcat aacatcaata caatgtctaa 300



catcaagatc agatcagtac gaaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
tcttacttat atccttcttt tgggtctttc caaatacatt attcacgtgt tcaacccgct 420  
gatatacttg ctca 434

<210> 9533  
<211> 445  
<212> DNA  
<213> Glycine max  
  
<400> 9533

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caacagtcac atcttttcat ttggttcttg aatggccatc aaaggcctat atatatgtga 120  
cttgagacac gaatttgcta agagttttca taacaaaaag gtcttatcct cttaaaaaagt 180  
aaaatcgttt tattctctta caaattcctt ggccaaaaca cttgtgatta aataaggaat 240  
tatttgagtg ctcaaattgt tcaatctatc tctttcaaga tttcttcttc tcttctttat 300  
tctgaaaagg gattaagaga ccgatgatct cttgttgtaa agaaatctat acacaaagga 360  
agggttgctc ttgtgtgatt cagatattgt aataaacctt tacaagatag tggaactctc 420  
aacgagggtg cttggggact ggacg 445

<210> 9534  
<211> 428  
<212> DNA  
<213> Glycine max  
  
<400> 9534

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tcattgttgg aactaaagac aatatatatt ccatttccag aatatagcct aattaccttt 120  
gcaactgact ttgaagggtg ctctcccttt agtctaacat caacacactg cttcacctta 180  
tcttactaa gcttttgtgt tgctgataa aatccaatga acaaaatcag aatgtgtaaa 240  
atcaaaaaat tgaaagggga agaaaacaca aaaataatta tcaacagaac agcatcaagt 300  
aatattggt acccaagtca caaagctttg ctgtcctctg ggtagtgtat gatcaaccgg 360  
tttacgttca gttaagagtt tactaatat aacttcgaag ctatagacat cactctttga 420  
agtgagtt 428

<210> 9535  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9535

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caatattgaa aagcaaggga actaggggat ccccttgtct caaaccctt gtaaggataa 120
attccttaga aaggctacca ttaatcaaaa tagatatagt tgctgagcgg aggcaagctg 180
atatccatga totccatttt gggcagaaac ccaacctaaa cagcatgtaa tccaaaaaag 240
accaagacac tgaatcatag gctctttcaa aatccacctt gaagatcatc actggtttct 300
tatttctcct tgcttctca accacctcat tgaggatcaa gataccatgg agaatatgcc 360
tttct 365
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<210> 9536  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 9536

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tagtaggact atgcatctcc aatatagttg tgcatttgtc gggaatgtgt gagcataaag 120
cctaggaact tgctccacc aaccccaaaa atacattttt cggggttaag gcgcatgccg 180
tatttgcaga tctctccgaa gacctcttcc agttctatca tgtgttgggc tatgctatga 240
gacttgacaa ccatgtcgtc gatgtagacc tcaatgtttc attcgatctg ctgtttgaaa 300
attcgatcca tcaatctcta gtatgtagcg cctacatatt taaggccaaa cggcatgacc 360
ctatagctaa cagtgtcatc ttcagtgatg aatgtctgtt tcttctatc tatagtatgc 420
atccaaatct 430
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<210> 9537  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 9537

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atagacctcc aatctttaat ggagaggggt accactactg gaaaacccga atgcaaattt 120  
ttatcgaggc aatagatcta aatatatggg aagccataga aatagggcct tatataccca 180  
ccacagtaga aagagtctca atagatggta gttcatcaag tgaaagcata accatagaaa 240  
aacctagaga tagatgggtc gaagaggata gaaaacgagt acaatacaac ctaaaagcca 300  
aaaacataat aacatctgcc ctaggaatgg atgagtattc cagagtttca aatcgtaaga 360  
gtgctaaaga aatgtgggac actcttcgat caacacatga gagaactaca gatgtctaaa 420  
gacctatgag taatgcactc ac 442

<210> 9538  
<211> 365  
<212> DNA  
<213> Glycine max  
<400> 9538

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tgtaccatgc gcaaggggta gtggattgag ctctataact gaccaccata cagacctttg 120  
cgcttacatg cagcaacctg gagcaataga acagactgat acttatgctg tagatattca 180  
caatagacct tctcaatctc aacagcaaaa ttaatcacag ctgaacaatt atgacctctc 240  
cagcaacaga tataacctg gatggaggaa tcaccctaac ctgagattgt gcatgcctta 300  
gcaacaacaa cagctacctg ctcttcggtt cctaaatgct gctggcccaa gcagaccata 360  
cattc 365

<210> 9539  
<211> 356  
<212> DNA  
<213> Glycine max  
<400> 9539

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acgagctttt caagttgtat gggactaagc tgcgtatgat cactgcttac catcctcaaa 120  
gtgatggaca aactacagtg cttgattgag tcttggaaca atatttgtgg gtgttagtgc 180  
atcataagcc atcctatcgg gaaagtttct gcatcttgct gaatggcgct acaaccccac 240

tacttatttta tccactaatt taacactcga tgaaattgct tatggtaagc ctactctaag 300

tctttacatt atcaagctgg aacctttgcc tggaacaat tgatttttct gacttg 356

<210> 9540

<211> 407

<212> DNA

<213> Glycine max

<400> 9540

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gcataaaattt tcacacggat gtccgattcg ggcgcataat atgtcaagag tctcgaaatt 120

gaacaacgga agctcttgag aaattcaaatt gggtataaaa tttcacacgg atgaccgatt 180

caggcaaattc tcatatcgag acgatcagaa ttgaacaacg gaagctcttg agaaattcaa 240

atggtcataa catttatctc gaatgtgcaa tttaggcgca tcacatatag tgatattcga 300

aattgaacaa cagaagctct tgtgaaattc aaatgggtcat aacttttcac actgagggcc 360

gaatcacggc tttaatatat cgatacgcct caaattaaca tcggaaa 407

<210> 9541

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9541

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tgatcgagtt gtgcatctcc aatatggcag tgtatttatg ggggttagct tcaatcccct 120

ggtaagtgat catgaagcca aggaacttgc ctccgcttac cccgaaagta catttttcat 180

ggtggaggcg catgtcatat ttgtggagtt ccccaaagac ttcttccaga tccattatgt 240

gttaggctat gctttgagac ttgatgacca tgccgtccat atataactcg acgtttcatc 300

caatctgtcg tctaaatact tgggtccatca cccgtgggta tgtagcgcat gcatttttag 360

gccaaatggc atgaccctgt atacacatgg caagtttgtg gtagataatg 410

<210> 9542

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9542

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aagcgcccca agaaaccca gactttcttt ttagtgcatt gcttctgcat ttcgaggatg 120  
gctttaactt tttcggggtc aacctctatc cttttttggc ttacgatgaa acccaacagt 180  
tttcccgaatt tgacctcgaa agtgcacttg gctgggttca accttagctg gtactttcgc 240  
aacctctcga acaacttcg taagttgatt agatgctctt ctttggtttt ggacttagaa 300  
atcatatcgt ccacatacac ttcgatttct tgggtgcatt tatcggggaa caaagctacc 360  
atcgcttgct g 371

<210> 9543

<211> 360

<212> DNA

<213> Glycine max

<400> 9543

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taaaattaaa tcccaacagt aatccccaca tgaacattat ccttccttaa aatggagaac 120  
acaatttgaa tccctcaata tgatatgaca aatgaaaact cctgatatat atatatttca 180  
tagcagaaca atctccacaa actcattctt aaacatccga attgggtgcac ttgtttgaga 240  
agcaagtaat cccaatttct cactgtgata agcaagacca acctcctttc cctctctatc 300  
catgtcatgc aaataaaaat tcatatcatg aacataacca acttccttag ttcttctacc 360

<210> 9544

<211> 369

<212> DNA

<213> Glycine max

<400> 9544

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ctcggatgctc tgattgagtc ccgtcacata tcgagatgct cgaaattgaa tgttgaagct 180  
ctgagccaat tgaaacgaca acaacatttt actcggatgt ctgattgagt cccgtaacat 240

atcgagacgc tcgaaattga atgttgaagc tctcagccaa ttcaagcgac aataactttt 300  
 tactcggatg tctgattgag tcccgtcata tatcgagacg ctcgaaattg aatgttgaag 360  
 ctctgagcc 369

<210> 9545  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 9545

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 cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180  
 catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct cttactgcag 240  
 catcttctat cagctactag tcttttccag gatgtcaaga catctcatgt gacatcagct 300  
 ttcccttgtc tccatgctct tactgcagca tcttctatca gctactagta gcttacatca 360  
 gtcacatca gcagcagcag tctccccctc aaaatcatgt acatacaact cccctcaaaa 420  
 atcatg 426

<210> 9546  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9546

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 taaaaagtta tcatcgtttg aattacgtca gagcttcaac attgaatttc gagcgtctcg 120  
 atttattacg ggactcaatc agacatccga gtaaaaagtt atcatcgttt gaatttggtt 180  
 acagcttcaa cattgaattt agagcgtctt gatattattac tggacacaat cagacatccg 240  
 agttaatagt tattgtcggt tgaaaatact cagagctttg gtattcaatt tctagcgtct 300  
 cgatatatta cggaactcat tcaggcatcc gagtaaa 337

<210> 9547

<211> 208  
 <212> DNA  
 <213> Glycine max

<400> 9547

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 tctcgggtca acctaacatt gtggaactta aggggtgcata tgaggacaaa caatcgggtgc 120  
 atttgggtcat ggaactttgt gcgggtggtg agctttttga tcgtataatt gctaagggac 180  
 attacactga acgtgccgcg ggttttttt 208

<210> 9548  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 9548

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 ctgttttgac agcettgcct ctgttttacc tgtctttctt caaagctcct tcagcagtgt 120  
 caaagaggct tatttcgatc caaatgaatt ttctatgggg tggaggcgct gaatggaaaa 180  
 agactgcttg ggtggcctgg gatcatatct gtgctcctaa aaaacaagga gggttacgaa 240  
 tcatagcctt caaggacttt aatagatccc cttcttatta aat 283

<210> 9549  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 9549

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 gaccatctag agtgaaaatt catggtggaa gtcatactt tctcaccatc atagatgatt 120  
 tctcaagaag agcatgtctg tatgtttcga agaataaatc agaagctgtt caaatattca 180  
 tagagtggaa aacacttatt ggaaatcaac ttgggtcaaa actaaaaata ttaaggactg 240  
 acaatggcct gtagttgttt cagagcaatt caatgagtgt cgcctgaaat taggtattaa 300  
 aaggcacaaa acaatccgtc acacaccact acagaatgga ttatcagaaa g 351

<210> 9550

<211> 377  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9550

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 cactgggaaa acattgtcgt ggaaggaaat tgtactgctg tgattcaaaa gatccttcca 120  
 cccaagcata aagaccctgg gagtgttaacc attccttggt caattggaga agtcactgtg 180  
 ggaaaggatc ttattgacct gngagccagt attaaacttaa tgccactctc catgtgcaga 240  
 aggttgggag agttggagat catgcgcact atgatgactc tacaacttgc tgaccgctcc 300  
 atcatcagac catattgagt aattgaagat gtgttgggtca gagtaaatat tttatcttcc 360  
 acgcaacttt gcggttaa 377

<210> 9551  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <400> 9551

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 catttttttc tccgtcattg aggtgccact tgagctgccg ggtctctcca cctttgggag 120  
 tattcttttg aaggattcgt gccccctttt tgcacatgtt tcgcacttgc atcctatccg 180  
 aagccattat actgacactg tctaacgaag gcaaccatta ggtccttcca agaattggact 240  
 ccggaagggtt ccaagtgagt gtaccaagta acagctaccc cagtaagact ttcttggaag 300  
 gaatgtatca gcaattcttc atcttttgca tatgccccca tcttctgata atacatcttt 360  
 agatgggtct cggggg 375

<210> 9552  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <400> 9552

agcttaaaca ttcaatttcg agcgtctcta tgtattacgg gactcaatca aacatacgag 60  
 aaaaaagtta ttgtcgtttg aatttgctct gagcttcaac attcaatttt gagcgtctgg 120



atatattacg ggactcaatc aaacatccga gtaaaagggtt attgtcggtt gaattggctc 180  
 atagggttcaa tattcaattt cgagcgtctc gatatatattat gggactcaat cagacttccg 240  
 agtaaaaagt tattgacgtt tgagttggca cagagcttca acattcaatt tcgagcgtct 300  
 cgatatatga cggaactcaa tcagacatcc gagtaaaacg ttactgtcgt ttgaatttgc 360  
 tcagaggttc aaaattca 378

<210> 9553  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9553

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 attggccttg gactgtatca ccaggaatag agttgggtcga actatactgc ctacagcaac 180  
 atctacttga atgggtccca aagaatagcc agttttgccc tcataattag agagcacaat 240  
 gttgtgagca gatagatcag tgtcatgtct cccgatcttg tagagcatag atcgaggcat 300  
 taagttaaca gccgctcctc catctatgag cactttgttg attccaacat tgtcaacttc 360  
 tgccctgatg aacagagggt tgagatgact cttcatctga aaatctggc 409

<210> 9554  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9554

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 caaaggcaaa tacatcagtc ttctcatcca caactccatg caagtagtac tcaggggcta 120  
 aatgccttca aaaaaacatg aaaaaagttc aatggacatc cgagaccctc tgaaacacca 180  
 aagagagtga aatatataag tatggtaggg tatatcatgt gataagaaga gagagacaaa 240  
 gataaatgag agatgatagt ggagtgggtta aaataatgaa atatttgtgt atcatgaccc 300  
 anaaaatata acacttttcc tttaaaaacg aagtttatac tccaatatac tactactaat 360

gtgttttgga actcgggtga

379

<210> 9555  
<211> 375  
<212> DNA  
<213> Glycine max  
  
<400> 9555

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catgatcttc atccgacgtt gttttgatcc tctacggat tcttagacgt tttcttctat 120  
tataagttcc taattttcta gacattttac tattttttcc ttgcatttgg ctttagttat 180  
ttagcacttt ggttaatttt gtgttttgct ttggatattt agcatttggg ttatgctttg 240  
ctttggatat ttagcatttg gttggtttat gttttgcttt ggatatttta gattctgttt 300  
tgcaatggat gattagttat tgttattgat tgtgatgctt gctctagcta ttttgtgggt 360  
ctttatacac ctctg 375

<210> 9556  
<211> 380  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9556

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acaacagcgc ccaatgcaat gagaaaaatc tatcaacagc tgtttcaaca aactctcctg 120  
tatgatcccc tgataaataa tatagcaata ggtgatcaag aacacacgaa aaccatattc 180  
acaagctttc attgttggat attgttttgc atatgtggca caaaatccta ccactcacac 240  
gtcataatcc tgtcagagaa caaggtatga gcaaaaaaac aaaatataaa tgtcaaataa 300  
atctttgtca acatgataag aaatagaagt gattcaaaat cctgacctgc agtgaanatg 360  
ctaacaacta taatggtttc 380

<210> 9557  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 9557

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atagtagata tttatcttga acaaaaccaa gtccttgcaa gaatttcttc acccatagca 120  
actccttgca tgcttcagta atgacaatga attttgcac tgtagtagac aaagctacac 180  
acctttgcag ctgggactgc caagtcacag ctccccctac aaatttaatc aaattgctca 240  
aagtggactt catagaatca atgtctccag ccatactctga gtctaagtac cccaccaaag 300  
tatgcttata accaccaaaa caaagcctca tatcaacagt accatgaaga tacctcaaaa 360  
tccatttcac aacattccaa tgctctctac 390

<210> 9558

<211> 428

<212> DNA

<213> Glycine max

<400> 9558

tctctctttt cttgattatt atcatttggt ttaagccttg tatttggtca tattattatg 60  
atatttgaac atttagtatt tctttttcta tttgcttagt atgattgaac aattaggaat 120  
tatgttatat gaccatgtgg tttttatata tttgaactat tcatgtttct tgcttcatga 180  
ttggtttgga tttttcaatg aatgtcttgc gtatgattag tcatttgtgt atgttttata 240  
tttgttacgc actttggctt tttgttgatg ccaaaggggg agagaaaata atgattaaat 300  
taagaaactc acataataaa ataacttaat ttcaagtaaa gcttaaactc aaaaacaaag 360  
ggggagaata tggagaatta agtgagtgat cgacaaggaa aaactatgtg tatgtgtttc 420  
ttaatttc 428

<210> 9559

<211> 282

<212> DNA

<213> Glycine max

<400> 9559

gaacgaatga attatgctcg ttgttggaac attcaggccc cgggcgctca tactgttctt 60  
cccacttata attgattcgt ggcgttcttg ccggtggaga gcttaaata ggcgtctcaa 120  
gagcactgat ggagcccctg tggaagtaga ggtgggtgaaa cttgtgagaa gatgcttttag 180

actaagcaat ggagagggttc ttgagccatg gaatgaagtg agtgccatca cgattgggaa 240  
 atttgggtgtt attacgggat gatgacccaa cgcttgtatt gt 282

<210> 9560  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
 <400> 9560

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 ttgtttaaga gaaagggtcag aaaaaaataa catagttgaa tcaacatcat tatcaatgtg 120  
 attagaatga taaaaaaacc taacaaatga aatccaagac atcacatgat aattagaaaa 180  
 atacaataac aataaagaat agtaatatta aaaattagat atacataaat aaatattatg 240  
 tacagagaaa aaaatgttca aacaacaaca tttttgttga tccggaaaat accgtaattt 300  
 gtgcctaaat cgagaccaat ctagatccaa ttgtgattta aaaatcacia ttcttaagaa 360  
 gaataaatta ttctgcattc taaaacatat ttaatgatct agcatgaaaa tacattgcaa 420  
 ccataaataa atattggtag ctatcaacaa taaaagctc 459

<210> 9561  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9561

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 agccttgcaa caagtcctag ggaagtagac acggagatgg acaagaaaat ccgcggtatt 120  
 gtgagtagca ttctgaaaga tgcttctgtg cctgatgctg agaaagatgt tccaacatct 180  
 tccaccccaa atgtttctgt gcctgatgtt gagaaagatg ttccaacatc ttccacccca 240  
 aatgtttctg tgctgatgt caacaaagat gttccaacat cttccggccc aaatgatgaa 300  
 gtactctctt cccccagcac agagagatca acagaggaag atgatcaagc cgcagaggag 360  
 acccctgcac caagggcacc agaacctgct ccagggtgacc tcattgactt agaagaagtc 420  
 gaatctgatg 430

<210> 9562  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<400> 9562

cttgatggtg tcgagaagaa atcacatggt tgtcatcatc taaaaggggg agaattgtgaa 60  
 tgtatgtata catgattttg atgatgtcaa agaagaatct aacaaggctg cttcaaatga 120  
 taagcatttg cttcaagaat aattcaagat tgcttcaaca aacaaagcct tgtttcaaga 180  
 ttcactaaag accaagtctt gccttaaaac aatgtgcttt caagacatgc aaggctctgg 240  
 taatcgatta ccaggaagtg ttatcgatta ccagaagaca gggttgagaa atagctgttg 300  
 aaaaaggttt tgaatttgaa ttttcaacat gtaatcgatt accatatgtc tgtgatcgat 360  
 taccagcaac gaaacttttg aaattcaaatt tcaaaagtcg taacccttca aattataact 420  
 gtgtaatcga ttacacaaac attgttat 448

<210> 9563  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<400> 9563

tgtgctcatg ccacaattgt tagtcgcggc tataccagac atcttgccaa acaaagtcag 60  
 ggtgatgata actcgctga gctttttctt ccatgctata tgtagcaaaa ctattgatcc 120  
 agttatgtct gatgaaatgg aaaatgagcg cgcaattata ctatgccaat tggagatgta 180  
 ttttccccct actttctttg acatcatgat tcaattgaat gtgcatctag tctgagaaat 240  
 ccaatggtgt ggtcctgttt atctaccgcg gatgtaccg gttgagcgat acatgaag 298

<210> 9564  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 9564

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 cattacacat caatgttctt gtgttgaaac tccaacaga atgggattgt tgaatgaaaa 120  
 catcaaatat ctattaaatg tcaattgatc cttgttattt cagtctaatt taccatctat 180

ttttggtctt atgccttgat tcattatggt ttcccttgta attgtatgcc tacttttttc 240  
 cttggtaatc aaactcctta tgaaaaacta tatgaaattg tatatgatat tgagtcttta 300  
 aggggtattc ggtgtctatg ttttctagta ctttgacagc taacagaaag aaccttgacc 360  
 caagagctgt tacttcagtc tttttg 386

<210> 9565  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9565

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 caaaatttaa aatgaagagt cacatctggt gatgtgtaat cgattacacc ttaatggtaa 120  
 tcgattaccg gtgactaatt ttgaaaaata aatttccaaa agtcacaatt cttcaagtga 180  
 cttgtttctg aaattttttt ttaaaagtca caacttttta agtgactagt tttttaaaga 240  
 gtcacaattt ttgaaggggt actagtttta aaaaaatttc caagagtcac aaactttaac 300  
 ttgagtcacg aagagattat aaacatgtga ccatggcatg aatntcagaa catcatctct 360  
 caacatcttt caaacaatct tttcaacgct ttctacagaa ctttctaaat catttctcaa 420  
 caatctttct acacagttta taacat 446

<210> 9566  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9566

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 atagaacaat tatgacctct ccagcaacag gtacaatccc ggggtggagga atcatcccaa 120  
 ccttagatgg ttgaatcctt cacaacagca gcaacaacaa caacaacctt attttcagaa 180  
 tgctgctggc ccaagcagac catacgttcc tccaccaatc cagcagcaac aacaataaca 240  
 gcaacagccc cagaaataac aaacagttga ggctcctccg caaccttccc ttgaagaact 300  
 tgtgaggcaa atgactatgc aaaacatgca gtttcaacaa gagaccatag cctncattca 360

gagcttaact aatcaaattg gac

383

<210> 9567

<211> 488

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9567

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gatctttcca atatcttcta gcatcaagtc aagacaatgt gcagcacatg gagtccaaaa 120

tatttttggg ctcgtgactt gtaaaatttt acctagaag atcaaaatca ataaacttgt 180

atgagtagtg taacaattaa aagttataac tataaaaaaa aaacttcatt aagcatgatt 240

gaattctcat ccgccaacac ataattactt ccattgtccg tcaccacttg aataacattc 300

ttttctccaa tctcctcaac aaagctatcc ataagctcaa agatcttccg accagtcttc 360

atgtattcaa aagcatccac actcctcaca aactgtgttc ccaatgaaca atctaccaca 420

aagttaatca aagttttata ctctctatct gttcaaccat ctgacataag ccctttgtgt 480

attccaac 488

<210> 9568

<211> 377

<212> DNA

<213> Glycine max

<400> 9568

agcttgaaac tgtcatgtat caatttcctt tgaaattgta tcaaagacaa gtattaagat 60

taaaattaaa tcctaacatt aatccccaca tgaacattat ccttccttaa aatggagaaa 120

acaatttgaa tccctcaata tgatatgaca aatgaaaact cctgatacat atttcatagc 180

agaacaatct ccacaaactc attctttaac attcgaattg gtgcacctgt ttgagaagca 240

agtaatccca aagcaacatc cgattttctta ctgtgataag caagaccaac ctcttttccc 300

tctgtatcca tgtcatgcaa caaaaaattc atatctggaa cataaccaac ttccttagtt 360

cttcttacga tttcatc 377

<210> 9569

<211> 451  
 <212> DNA  
 <213> Glycine max

<400> 9569

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tacacatact ttttctagt cgattattca cttaattctc catattctcc ccctttggtt 120
ttgagtttaa gcttcacttt aaattaagtt atttaattat atgagttctt gatttaatcc 180
ctattttctc tccccctttg gcatcaacaa aaagccaaag tgcataagaa atataaaaca 240
tacataaatg attataatat cactagacat atatcatcaa aataattaag tttaaaactc 300
ataacaatta agagtaagta aatataatca tggttcagtt tactaatcaa atattaaaag 360
aaatactaag tattcaaagtc tcataaaaat ataaatcatt tgggtaagtc actagcatct 420
tgcagtccta attctcttct aatggcgtag a 451
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<210> 9570  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9570

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gtacgattgg atagagaaaa ttccacacct tcaggctttc accttgctac tacgcaattg 120
ttttgctcca ccaccaccac taccacaatt gttgctacga tgtaccagca ttgttgccac 180
cacaaccatt gctactgttg ccatcactac tattgctgct gccatcacta gcatgtatca 240
tgattgcttc tataattggt acctctactg acacaaccac tatcactaca ttgcccagga 300
tccgatgggc tcaaaaatga taattgcttc cagtcaactt gngtggttcag aggagataat 360
caccatcgct gctgttcttt ccgtccaggt gaatcttttg ctgtagtcat g 411
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<210> 9571  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 9571

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tcttacaag catacggctt tctggatgta gatgatgata tctatacaga tggatcttat 60
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atatctatat atctatagat agatatatag atatagatat atagatatag atcatacaat 120  
 gaagtaccgc acgagtgggt atataggaat ccaaactctgc cgaatcactc atgttatgat 180  
 cttctacatc ctaagtcttc ccgttccttc atctggctta tgttcttcat gtagcattca 240  
 cactgaatga ctctatgaaa ttacgtcgct acttccacat ggtacgggta acgtatgaga 300  
 catctctatt tttcccgggg ggaatactta gaattaccac agcttagctt tcaat 355

<210> 9572  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 9572

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 ttcaaataca gcaagaatat gaaggcatat acatacatca aaccaagtac ttgaaagaac 120  
 ttttgaagaa gtttaagatg gatgatgcaa agcatatgaa aatgcctatg catccaacca 180  
 ctatactttg actagatgaa gaatcaaata atgttgaaga aaagacacat agaggaataa 240  
 tacaatctct tttgtatgta actgcatcca gacttgacat tatgttcagc gtatgtcttt 300  
 gtgcacaatt cctaaaggaa ccaaagggaag ttcactctatc tgttgtcatg catatatcga 360  
 tgactaatag gaactccgaa ccttgggtta tgctataaga gagaaaagaa atac 414

<210> 9573  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 9573

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 caatggcgggt aatgacggac cgaggcagaa ccgggttgag ggagtaaagc tcaatgttcc 120  
 tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180  
 cgtatattgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240  
 ctccgactat gcccttgttt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300  
 gcgagaggta gatacatgga ctgagatgaa aagggatgat agaaaaaggt atgtgcccac 360  
 tagctataac agaaccat 378

<210> 9574  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 9574

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 tccatctctt caccctcatt tttagattct taaatttttc cttgagcaca aaacctcccc 120  
 atcctgggtg caattgagag ttccagcatt ggtggacaac tttcttaaag gatacatccg 180  
 agagccagca gtccaaaact ataaaagggt gagggcccca atcaacaacc tttgatcgaa 240  
 gaagaatagg acaatgatct gaaaagttcc tggcaagtgt catttggaca cttgcaggcc 300  
 atctattcag ccattccggg gaaaccaagc acctgtccag cctactccta gaagcccat 360  
 taggtatgat ccattgtaaac ttctgcca gccaaaggaac ctcaagcaac tccagttcgt 420  
 gaatcctatt attgaatttc aatatactgc tgtcactaat ac 462

<210> 9575  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 9575

gcaagcttcc acttattagt gcacagcttt ttgatgcac cttcctagga agggaccaat 60  
 cactaaaacc atgagcaaga ggctccaaga agattgggct agagcttgtg aaaaaagccc 120  
 taaggttctc atgaacctta aggtagattt ctgagcccat gggccaagggt tgggtccaat 180  
 tatctttgta catattaaac taggatgtca ttatatttgg tccttgtata taggggtcca 240  
 tattgtaggg agggtagcct agaaatatag gatatttcag cccttgtatt ttttgggcac 300  
 ctagactagt tttt 314

<210> 9576  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 9576

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attgggctat agctgctgaa gaaggcccta cggttctcat gaaccttaag gtagatttct 120  
gagcccatgg gccaagggtg ggtccaatta tctttgtaca tattagacta ggatgtcatt 180  
atatttggtc cttgtatata gggctccata ttgtacgtag ggtaccctac acatatagga 240  
tttttcagcc cttgtatttt ttgggcacct agactagttt ttgtatt 287

<210> 9577

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9577

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taagtatatt caccaggaaa aaattgtagt ggaaggaaat tgtagtgttg tgattcaaaa 120  
gatccttcca cccaagcata aagaccttgg gagtgtaact attccttggt caattagaga 180  
agtcactgtg ggaaaagctc tgattgactt gggagccagc attaatttaa tgtcattctc 240  
catgtgcaga aggttgggag agttggagac catgcccact aagatgactn tacaactggg 300  
tgaccgctcc attaccagac catatggagt aattaaagat gtgctgggtca gagtгааaca 360  
ttttatc 367

<210> 9578

<211> 427

<212> DNA

<213> Glycine max

<400> 9578

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cccgacgaag aactgacaa aaacttatct tctccttttt ggacaaggta tggcaagcta 120  
ggggcaagta aattttcttc ccattagacc ttggatgcaa ctgcatcgt atgcccata 180  
catctagatc ttgacaggta ttgaagccat ccttcattct gccttgaatg ttaatgagag 240  
tcccaatcac actattacaa acatttttct gcacatgcat aacatcaata caatgtctaa 300  
catcaagatc agatcagttc gaaagatcaa agaatatgga cctcttcttc catatgcaac 360  
tcttactctt atccttcttt tgggtctttc caaatacatt attcaggtgt tcaacccgct 420

gatatac

427

<210> 9579  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 9579

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tgcagtgggtg atggcatgga gctctcggat atatgtggag gcgtgatgta accgggggca 120  
gaaaagcttg ctaaaataag ccaagggatg gccctgttgc atgagaacaa ccccatctc 180  
gatacctgaa gcatcagtct taagtgtgaa tggttatgaa aaatcacgga gggccaagac 240  
gggggcctgg gtcatggctt gcttgagtcc ctgaaagcc gattgagcac cctcgtccca 300  
atggaagtta tccttttgta acagtgtggt taaaggggag gcaatggaag catagcctct 360  
tgataacttc cgataaaacc ctgttagacc caaaaatcca cgtagagaat gggatttg 418

<210> 9580  
<211> 212  
<212> DNA  
<213> Glycine max

<400> 9580

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atgtggaaga gtcactggat gcttcgggtg cacagaagta acaattgtcc cttggtcagc 120  
tggccttcaa tggaactcta cgtcctacat gaggaaccta tcattgcgac accttgacgt 180  
gcacatcgaa tacatcatcc acacaactga ct 212

<210> 9581  
<211> 471  
<212> DNA  
<213> Glycine max

<400> 9581

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ttactagttt agcccaatct tctaaattta ttcgatgcat acatgtggat gggctaatac 120  
caggaatgtc cgccagggtc cagcctatag cttcttatg cttcttgaga atagataaca 180

gcttctcctc ttgctcatca gcaagggagg cagatataat tactggaaaa attttgctat 240  
catccaagta agcatatttt aaatttgatg gtagaggctt caattctggt gtgggcggct 300  
agatagtggg agaaagagat ggtttctcag cctgtacctc ataaagaaat tcagagggtat 360  
gtgtacttcc tgaaacatgg ttagttctat ctgactctag aaaatcaatc tcaagaggta 420  
aaacatcaact aggaatgtaa tcaatataaa tttcagattc actctcagca t 471

<210> 9582  
<211> 475  
<212> DNA  
<213> Glycine max

<400> 9582

actcaagctg ccaataatat tagtttgagt ttgagtactt cttattaaaa aaattagctc 60  
tgatcctttg atcaaataata ttatatattt aacaaactaa cttatcatat gtataacgta 120  
tgcacttata ccttatcaaa atcaaaaataa accattaact cacattatta attttcaacc 180  
ctgtccatgt gcagatcaat ttaacttatt ttctttaaat aataattcat ctttttagttt 240  
aattcttata tattttttaag gttctcactg ctatatgtta tttttaaaat aatcattaaa 300  
aaatcaataa ttgtcaatta tatgaaaatt cataattaac ataataacgt tataccttaa 360  
ttaaatcgct tatttctatt aatcatcttg aatatctttt ttataataa ctaaacaatt 420  
ccatgtcgat acgagttatt cgatttactc tcaattcttt tattatatct atact 475

<210> 9583  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9583

acgccccggg atcctctgag tcacctgagg atgcagctta tcatttagta aactttatta 60  
aaactttaaa cattatggca tataagatga tttttgaata tcgttaatgg aatacaatct 120  
tacttaaaat ggataaaatt attatagaag atatttataa attaataggg tattgggatt 180  
catgactaac tatcagtatt atttaggacg tatttctact tatggagtga aaaaaattat 240  
gtaaaatgag aagtaattat ggatgtgtct attattaata taaataaaat atcctataaa 300  
cagaatccaa ttaaattaaa aaaaataaaa taaatgcacc tttcttttca ctctgtacgc 360

gcttctcacc ttntacagca aaatagaaaa tctaaaatta attta

405

<210> 9584

<211> 431

<212> DNA

<213> Glycine max

<400> 9584

tggaattgtg agttatgact aagttctgtt atgtttattg caatattttt gtaggtatga 60

caaaggagca' tacttggtttt tgccatcgta tgttatgaga gtacatggag caaagcagca 120

acgtgaagca gttaagaggg ctccaagag tcaacttgat cctgtttttg aggttgggat 180

attcttttct aaaatgtatg tgcatttgta agtctgtctg tggctgcag ttaatagttg 240

ttgaaattaa ttctggtatt attgtgtaac taggccctta atacccttgg caataccaaa 300

tggagggtaa acaaaagggt gctctgtgtg atagatcaca tatgggctaa tggaggacgc 360

cttgctgatt tgggtggatcg tgaaatgtga gtactaaaca aactttttgc taaatctatc 420

tgttgactcc t 431

<210> 9585

<211> 376

<212> DNA

<213> Glycine max

<400> 9585

agcttgttgc actagcataa acaaggagtt gagcaactgc ttctggtctt ggggtgcatg 60

gcaatccttt ggcaggaaaa attctaaaac aaaatcagcg gaggcactcc ggagtggaat 120

gccagagca gcatgcaagc caaacatggt agcatgatgt gccagaggat actccgcctt 180

gctgaaggaa gtaatgtcat ttgcaaaaca aggtttggtg gttgtgaaag ctgtcccaac 240

tactccttgc ccccccaaaa ggtggcactc agagcaggct tccaggaaac ccattagctc 300

tacatccgcc acaaaactag cagcatacac agtcgacaca taattcatct catcgtttga 360

atgccacat ccaactc 376

<210> 9586

<211> 359

<212> DNA

<213> Glycine max

<400> 9586

agcttctgtc cctgagaaac tggttcccag aagacaacag ggagtgaaga ttgctgaaaa 60  
ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
tattgtgagt agcattttga aagacgcctc tgttcctgat gctgagaaag atgttccaac 180  
atcctccacc ccagatgttg ctgtccctga agctgatgaa gatgtcccaa catcttccac 240  
cccgaatgtt tctgtgcctg atgttgagaa agatgttcca acatcttccg gcccaaatgc 300  
tgaagtactc tcttccccca gcaaagagag atcaacagag gaagatgatc aagccacag 359

<210> 9587

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9587

gcatagtata acccttcagt ttcaattcag agtctccata aatgaggaat tgttcttttag 60  
atcttcttaa gtacttaatt atggtcttaa ccactttcca atattcctca ccagggtttg 120  
cttgatatcg actagttaca cctagtgcac aagcgacatc aggatgtgta caagtcatgg 180  
tgtacatgat agtcctact acactagcat atggtactct actcatgcgt tctctttctt 240  
caggagttat tgaacaattc tccctactaa gagtaattcc aacacctata ggcaaacagc 300  
ctcgtttgga attattcatg ttatatctct ntaagatagt atcaatgtac atagattggg 360  
agagtccaag caacctnta gatttatctc tataaatctt tataacctaga atatagactg 420  
tttctccaat ccttcatgg 439

<210> 9588

<211> 450

<212> DNA

<213> Glycine max

<400> 9588

cgacatcgac caacaacgta gactgacatg tgtatcactc gtctatttga tcttgatttc 60  
actttccccg tgatattcta ttgtcaatat tctggaagtg ttatacatat tttaagaggt 120  
caaagattaa acttgtcaaa gactcaaaaa taaaataaaa gtccattcaa agaaataaaa 180

tgatgtttta gttatgcata ctaatTTTTT attattaata ttcaaattag atatTTTTTTa 240  
 ccacaagtgc ctttttatat ttttcatttt aattacttac atatcagtgc atcaccatgc 300  
 cgcgtttcat gttatggaaa aaataatttt taaacaatct tgagttgata aatgatgtaa 360  
 tataataaga aaaaagatta aaaaagatta ttaactgaat gcttattggt tttataaaat 420  
 ataatcactc ttatatgttt taatccttca 450

<210> 9589  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9589

agcttgtagt gattcactct gatgtgtatg gccatttga aatcaaatat catggaggta 60  
 acttgatatt tgtctctttt atagatgact ttacaaagaa aatttgggtt tacctgttac 120  
 aaagaaagag tgaagtattt gtaacattta aatcattcaa gttactagtt gaaaagcagt 180  
 ctgattgttc aattaagatg cttagaacta atggtggagg aaagtacact tcacttgaat 240  
 ttgataattt ttgcaaggaa gaaggaataa ttcattgatg aatggctcca tacactcctc 300  
 aacacaatgg aactgctggg agaaggaana naacaatgct aaatatgggt agatgcatgc 360  
 tgagagagaa g 371

<210> 9590  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9590

ntcgagagat tcaaattggtc ataactttta actcggacgt ctgattgagg cgcattttat 60  
 atcaagacgc tcgaaattga acaatggaac ctctgagca atttaaattg tcataacttt 120  
 tcactcggag gtccgattca cgcgcataat atatcgagac gctcgaaatt gaacaatgga 180  
 agctcttgag caattcaaatt ggtcataact tttcactcgg aggtccgatt caggcgcata 240  
 atatatcgag acgctcgaaa ttgaacaatg gaagctctcg agcaattcaa atggtcataa 300  
 cttttcactc cgagggtcga ttgaggcgca ttatatatcg agacgctcga aattgaataa 360



tggaagctct tgagcaattt aaatggfcat aacttttcac tccga

405

<210> 9591

<211> 437

<212> DNA

<213> Glycine max

<400> 9591

tctaaacttt gtacaagaat gaagctctga taccacttga tagacaagtg gcctcagata 60

tcttaagaag ggggggggtt aattaagata ttccaaactt ttctcctaata taaaaatcta 120

tcttactttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180

aatgaagcaa cttgaatatg aatataacgc aataataaat aaaggagatt aagggaagag 240

aaaatgcaaa ctcagtttta tactgggtcg gccacaccct tgtgcctacg tccagtcccc 300

aagcaacccg cttgagagtt ccactaactt gtaaattcct ttacaagtt ctaaacacac 360

aaggacaacc cttcctttgt gtttagagat tctttacaac aagagactca cagtctctta 420

atcccttaga gaatgag 437

<210> 9592

<211> 380

<212> DNA

<213> Glycine max

<400> 9592

agctttgaat gctctattca atggagttga caagaatata ttcagactaa tcaacacttg 60

cacagtggcc aaggatgcgt gggagatcct gaaaaccact catgaaggaa cctccaaggt 120

aaagatgtcc agactacaac tattggctac aaagttcgaa aatctgaaga tgaaggagga 180

agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240

gggagagaag atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300

atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360

tgaactcatt ggttcccttc 380

<210> 9593

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 9593

gctttctttt ccattgttta atactaaaca cttgccacca aaaacatgaa gatgcgagat 60  
gtttggtttc ctaccattga atagttcata tggagttttc tttaaaattg gtattattaa 120  
agccctattc atgatatagc atgcagtatt agcggcttca gcccacaaat attttggaag 180  
aggagtatca ttttaataagg atctagcaat ttcttctaaa gacctatttt tcctttcaac 240  
aactccattt tgttgagggg ttctaggtgc agaaaagtta tgttcaatgt catgcttatt 300  
acaaaataaa tcaaattctt tattttcaaa ctcaccnca tgat 344

<210> 9594  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9594

ntccaagcca tataaattat gtggaattta aggaagatta ttagtagaaa agatgtacca 60  
tatggagctg atgcatcata cccaattagg gtatattgac tcattagtag tcccaggaga 120  
aatatgtagg gtttgctctt gattccatca tcgttttttag tattgaaatg agtgaaatca 180  
aacttgagac cagctctttc cgttgcaaca attgaaatga gtatgataag aacaaaaaca 240  
cctaaaagtt tccccattca aattagttgc ataaacaatt gctgatttcg atatttggtt 300  
gtaattgaaa tttaaccttt gtatgttctt ttatgtcatg aatgtaattt tctatataaa 360  
caattgttat tcatgctgag tgaaccttag attcccgttt gagattgaat gcaatgattc 420  
ttgcggatag ttgcatgtag tcattgtatt tagtc 455

<210> 9595  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 9595

ttgcatcttt ttcattggcaa gatttgccaa gttagcttca tctctttcct tggctgcatc 60  
aactgggtgcc atggatgata tcagctcaat aagtacaacc ccaaagctat acacatcact 120  
cttgctcttg agcctgtaca attggaaata ttgaggggtca agatacccta gagacccttg 180

tggagctgtg gagacatggc ttacatcatt ggggagcaat cttgaaaacc caaaacctgg 240  
 taccttaatc gaaacactaa tgtcaagtaa aatggtgttg gttttgacat cacggtagat 300  
 gatattagaa gtatggagat aaagaacaaa actaatgatt tgtgctccaa aactaacaaa 360  
 tctccgccaa ttgtttctac actcctacta tttatgcaaa tattttatgg aaaagcatag 420  
 ataataaata gtgacattaa ccatacatga gaagcat 457

<210> 9596  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 9596

gagcttctaa actttataca agaatgaagc tctgatacca cttgttagac aagtggcctc 60  
 agatatctta aaaagggggg ggggtgaatt aagatattcc gaactatttc ccctaattaa 120  
 aaatctatctt cactttttac tcaaggtatg aattccctta atgacaatct tcttaaatat 180  
 taattcaaata gaaacaattt gaatatgaat ataaagaaat cataaactaa ggagattaag 240  
 ggaagagaaa atgcaaactc agttgtatac tggttcgggc acacccttgt gcctacgtac 300  
 agtccccaag caaccgcgtt gagagttcca ctatcttgga tatte 345

<210> 9597  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9597

tcattgattt ctcataagct taatatcaga aagggaccca atattcatga gtcaattcta 60  
 gcacgagctt ttcaagttgt atgggactaa gctgcgtatg agcactgctt accatcctca 120  
 aagtgatgga caaactaaag tgcttgattg agttttggaa caatatttgt ggggtgtagt 180  
 gcatcataag ccataccta gggataagtt tttgtatctt gctgaatggt gctacaaccc 240  
 cactactcat ttagccacta atttaacctc gtatgaaatt gtttatggta agcctcctcc 300  
 tagtatttcc aattatcaag ctggaacctt tgccgtggaa gcaattgaat tttttctgac 360  
 tttgcgccaa gaaaccttcc acctacttat gaagaagctt gaaaggccta ngaacatatg 420  
 aaaaagaatg ttgatactca tcgtcgagat gtcaatt 457

<210> 9598  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 9598

agcttgtctc aataagtgtg ctcgatttga tcaattgaca ttattggtct ttatcaataa 60  
 taaaattttc agtaatacca tcaacagatt gcttgagcat caagtgttgt aagaataaaa 120  
 tgggtataata aacatacttg ctgagtcctt gagctgcact ctatataata tgtagctcct 180  
 accagtttac gcaattcttc accctgatta tggacaaaac ccaaaagttt caataaacac 240  
 tgcttattga actcttttagg tggctaataa agtaaggcat agtacttgct cagaagtcac 300  
 aagcgccaga ccaggattat cagtcaaata aaaataaagt tatttttatg atatgaattt 360  
 a 361

<210> 9599  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 9599

agcttctcaa ggaagttacc tagtctataa ataaaagcat gtgtaacact tgttataact 60  
 ttgatgaatg agagtcttgt aagacacaac tcaaagttca acttctctcc ctttttcttc 120  
 ctgttaatttc gtgctccctc ctctctttct tttagcagat gctcaccccc ccctctaaaa 180  
 ttttaattgga gtgggcttct cccaattcaa ttaaatttat tttcaaccac acacatcaaa 240  
 tattcactta atgctgtgcca aattagaaaa ctacccttaa tacaaaaaac tagtctaggt 300  
 gccctaaaat acaagagatg aaaaatctta catttctagg gtaccttaac tata 354

<210> 9600  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 9600

agcttcaaca ttcaattttg agcgtctcgt atattacggg actcaatcag acatccgagt 60  
 aaaaatttat tgtcgttttg attggctcag agattcaaca ttcaatttcg agcgtctcaa 120

tatattacgg gactcattca gacatccgag taaaaagtta ttgtcgtttg aattagctta 180  
gagcttcaac aatcaatttc gagcgtctcg atatatcacg ggactcaatc agacatccga 240  
gtaaaaagtt attgtcgttt gaattggctc agagcttcca cattcaattt cgagcgtctc 300  
gatatattac gggcctcaat cagacatccg agtaaaaaag tat 343

<210> 9601  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 9601

agcttgttgg agttcactga gagcttcttt aggtttatga gctcaaacc c tattgtgtct 60  
ggcagcttgc tcagcttggt gaagtttgca ttcagctctt cttaaagctct gctaggtcaa 120  
aattcatcac agcatgcaac atgcatgcat gttaagataa tgaaccaagt aataatcaac 180  
atgaataaat tctgatacac acaatcacia acacaattaa tcaccctat attaattaca 240  
atcaattaat cttatttggt tcttgacgc ttctgatcat gtcatgtcat tttgatttgc 300  
aaggaataac aatgttgatt ttgtgatgta agagctagaa atgctcaatt aatgcatggc 360  
atgttgaaat tagaat 376

<210> 9602  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 9602

agcttccact tattagtga cagctcctga tgcaatcctc cctaggaagg gaccaatcac 60  
tagaaccatg agcaagaggc tccaagaaga ttgggctaga gctgctgaag aaagccctat 120  
ggttctcatg aaccttaggg tagatttctg agcccatggg ccaagggttg gtccaattat 180  
ctttgtacat attagactag gatgtcatta tatttggctc ttgtatatag ggctccatat 240  
tgtaggtagg gtaccctaga aatataggat ttttcagccc ttgtattttt tgggcaccta 300  
gactagtttt tgtattaggg gtagttttgt aatttcacat gcactaagtg gata 354

<210> 9603  
<211> 364

<212> DNA  
 <213> Glycine max  
 <400> 9603

tgtctctcaa tactatgaat ctgttcatct tcaagccttt tgtgagaata tccgcaagtt 60  
 gcatttcagg actgcagtag ttcaagtcaa gttgtttttt gctcaccttt tcacgaagaa 120  
 agtgaaatct cgtctctatg tgttttgatc ttccgtgtac tattggattc atggccaagc 180  
 tgatactgga attgctgtcc acatacaatt cgaactggcct ctaaaatttct attttctatt 240  
 cttccagtaa agagtctagc catagtgtct ggcatgcagc atagcatgct gcaatgtact 300  
 caacctcgca agaagataat gctactacat gttgggttctt tgaacaccag cttattgggtg 360  
 cacc 364

<210> 9604  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 9604

tggaaggtag tcatacctca caaaatatat atatgtatgt ttaggtagga agataccata 60  
 gatatgcatg tatgtaaaca aaaaaatact tcacaaaata tatatatatg tatgtttagg 120  
 tagtgaaaat accttagata tgcattgtatg taaacaaaaa aatacttcac aaaatatata 180  
 tatgtatgtt taggtagtga aaatacctta gatatgcatg tatgtaaaca aaaaaatact 240  
 tcacaaaata tatatatgta tgtttaggta gtgaaaatac cttagatatg catgtatgta 300  
 aacaaaaaat atacttcaca aaatatatat atatgtatct ttaagtagga agatacctta 360  
 tatatgcatg tatgtaaaca caaaaaatac ttcacaaaat atatatatat atatatatat 420  
 atatatatat 430

<210> 9605  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <400> 9605

tatttgtaaa gaaaccctga accctacttt gtcaaatacc cattaaaact caatcaatca 60  
 agtaatccta aaccattatc tttgaaatac cctaatacca taactagcaa agtaacccta 120

aagtctaatt tgtcaaataa ccataaatac ccctaaacca taactagcaa agtaacccta 180  
aagtctaatt tgtcaaataa ccataaacc ctaattagtta agtaacacaa aaccctaatt 240  
agtcaagtac acataaatct gaaatagtca aacacacata aacccaatt tctcaagtaa 300  
ccctaaacat ctaattgttc aaatacccct aaatcctact tagtcaagta acctaattag 360  
tcaagtaccc ctaaacccta tagtcaaata 390

<210> 9606  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 9606

tgtggaaaca aaaaagtgca acacatttga tatagtttat aggcttctga agttggcttt 60  
agtcttgccg gtagcagctg caagcgtgga atatgttttt ttagctatga agtttgtgaa 120  
gagtatctat gtaacaaaat aaatgattaa tgggttaaag attctcttgt aacttttata 180  
gaaagagatg ttctttgaac aatcaacaat gatgtgattt tagctcattt ttaaaaaatg 240  
ggtaataaac gattttttatt gtaaatacat atcattaaac aacattattt cttattttta 300  
atatatttta gtctataatt tcttttatat ttatttcaca ctgatattta tttattgtta 360  
gattcgtccc tgcttgccctg ccatattcaa attaaagctg tttaaatgat agaatt 416

<210> 9607  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9607

taaaattcat tatggatgca tacactaaga gcatttctaatt ggcttctaatt ctagcaacta 60  
gagcatatgt ttcttcataa tctatacctt cttcttgatt atatcctttt gcaactaatc 120  
tagccttatt tctaatgatt atgccatgtt catctaaactt attcccaaatt acccattttg 180  
ttcctatgat gggatagttt ttaggtttct caacaagttc ccacacattg tttctttcaa 240  
attgatttag ttcttcttgc atagcaatta tccaattatc atctattatg gcttctttta 300  
tatttttagg ttcaatcata gatacaaaag ccatattatt gcataattct ttaagagaat 360

gtctagtgtg taccctttt gagatatcac caataatggt gtcgacggga tgatctnttg 420  
aggctttcca ttctt 435

<210> 9608  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9608

tgtgttccta caaatgctga agaacaaccc atttagtggg gctgctcatg aagatcctat 60  
acagcacctg agtgggactg gttgtactca ctacctgaga acaacattac tacatggaac 120  
cagtgcataa gtgccttctt aaggatatat ttttctctca tgaagatgga tcagtacatc 180  
aaggacattg gaaacttcgt gcagaaggaa caagagactt tacttgaagc cttggaaagg 240  
ctgcaagaga taattagaag tttctcacat catggctttt cacctcaaag gctagtccac 300  
atcttctatg gtggagtgtc ctacacacat tggacaagtt tggatgctac ttgtgagggt 360  
aatctcattt tanaaccct tactaatgac ctcaagtga g 401

<210> 9609  
<211> 432  
<212> DNA  
<213> Glycine max  
<400> 9609

tatcaaactc tacaatttat gcacactgat aagaatgtca tatttttgca ttttaattcgt 60  
agaggagtta tttcgtataa aaataataac aaaatattta taaataatat atcatttaaa 120  
taattcaata atataataaa gtaaaatagt aaataataaa tttcacaata gttaaataat 180  
caattttaat aatacatcac acttttagat aataacttac cgatattata gtggtagtat 240  
gttattagag aataatggtt tgatgttatt agatgtgata attttttatt tgggaacaac 300  
acattaaatt gaagtatggt gaatattaga tagacaaaaa acaatccaaa atgatttatc 360  
ttttagtcta attatttcta acttgctgac tagttgactc gatagtaaac tcgagagtct 420  
acttaagtta ct 432

<210> 9610  
<211> 361



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9610  
  
 tcagaaagaa attntggcac tacagactga gaaagagttt gtaaggagct tgtatgaaaa 60  
 ttcctatgaa aagcactggg aaattgaaga ccagattaca caaatgcaga aaagggtttg 120  
 cagcttgcaa gatgagtttg gaattaatac attcatagaa gataacgatg cacgagctct 180  
 gatggctgca acagctctga agtcatgcaa agagaccctg gctaagttgc aagaggcaca 240  
 ggcaaatca tctgaagagg ctaaagaatc ataccaaatg gttaaggaag ctcacagcaa 300  
 gtttgaaacc cttagagacc tattcatttc taaacataag agtccacaag accaagtaac 360  
 a 361

<210> 9611  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9611  
  
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 caatagaatt aattgattga tctaatatgt ataaaaata ctcattatga aaagattctt 120  
 caggtgaatg tgtgatctca ttactaatat tttttttatc aaaatgaggc tgtttatgaa 180  
 ttttacgttt ttcattgaaat tttggctcta tatccatttc gatagtcatt ttttctgtgg 240  
 attctaaagc caatgcaaac cgtttttccc tataatgttt taaataagtg ataacacctt 300  
 ttaaatgatc tatagcaaca tctatatgca tatcttttga ttgtagaatc ttgctaacag 360  
 aattgacagc aaacacaata tcataccaaa tattattcct aataaatatc aaaatc 416

<210> 9612  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9612  
  
 tgtaatcgat tacacatata ctgtaatcga gtaccagatc atattttcag aaaatattct 60  
 caacagtcac atctttctat gtggctcttg aatggctatc aaaggcctat atatatgtga 120

cttgagacac gaatttgcta agagatcttt ggatcaaaaa ggtcttatcc tottaaaaaag 180  
caaaatcggtt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttttcttc 300  
ttcttcattc tgaanaggga ttaatagacc gacggtctct tgttgtgaaa gaattctaaa 360  
cacaaaggaa ggggtgtcct tgtgtgtag aacctgaaaa agaattacac gatagtggaa 420  
ct 422

<210> 9613  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 9613

tgatatacctt agcccccttc gatataccat tgcagttaga gccgacctaa catgcatacc 60  
caagatgtcc accccaagat accactgcct agtagtaaag gtctccacaa gctttgccac 120  
aaagaatacc cctgcaagga cataccccctc atgtgggaaa atctctttgc caaccaagta 180  
atcaacaaag taacttatca tgtacggacc gacatactag acaagagtag tgacaccagc 240  
aaatacggca ttacaagctg cctccttcca gaacgacttg agaagtgcc aagccaatga 300  
aggctgctcg gattgggttt cagccttcaa cctctcccaa ttagaattca aaaccttata 360  
atttgtcttg gatcggtctt tcgccgaac aaggggaatg ttcttaagct caag 414

<210> 9614  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9614

nttaataatg gtgatgtctt atttatttgt ctttatgtgg atgaccttat ctttaccggc 60  
aataacccaa atttgtttga agacttcaag gattccatgt ctcatgaatt tgagatgaca 120  
gatatgggac tcatgtcata ttacttggga atggaaatga agcacatgga gaatggtatc 180  
tttgtctcac aagaaagcta cacaaaagaa gtgttgaaga aatttaatat gcttgattgc 240  
aatcccgtga acacacctat ggaaggtggc ttgaagttat caaagtttga tgaaggagag 300

aaggtagacc ccacggtctt caagagtcac gtggggagtt tgatgtatct aaccaataca 360  
 aggcccgata ttctatatgc ggtgggagtt gtgtgttgct ntatggaggc tctacctct 420  
 ac 422

<210> 9615  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <400> 9615

tgtgcctctt catgtctgga atatgaatgt agcatatata tccaaagacc cttaagtgt 60  
 ttgctgatgg cttcttcccg ttccaagctt caattggagt cttgtctttt acagacttag 120  
 ttggacatct gttgagtatg taaacaacag tgtagactgc ttcagcccag aatatgttag 180  
 gtagtccctt ttccttgagc atcgatctag ccatctccat aactgtgcga ttctttctct 240  
 cggacactcc attttgttga ggagaatatg cgactgtaag gtgtctctca atgccttcat 300  
 cctcacaaaa tctttcaaac tcgcgagagg tgtactcctt gctgcgatca cttcttagta 360  
 cttttatccc gttttcactt tgattt 386

<210> 9616  
 <211> 356  
 <212> DNA  
 <213> Glycine max  
 <400> 9616

tccgttggtc aatttcgtgc gtctcaatat gtgatgtgcc tgtgtctgac ctccgtgtga 60  
 aaagctatga ccatttgaat ttctcgagat cttccgtggt taaatttcgg gcgtctccat 120  
 atgtgatatg cttgaatcgg acctccgtgt gaaaagctat gaccatttga atttctcgag 180  
 agattgcgtt gtttaatttt gagcgtctcg atatctgata tgcttgaatc ggacattcca 240  
 tttaaaagtt atgactatct taatttctcg agaactttct ttgttcaatt tcgagcgtct 300  
 ctatatatga tgctcctgaa tcggacttcc gagtgaaaat ttattatcat ttaaatt 356

<210> 9617  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 9617

atgaagaagc gttaaagcag gaagtatggg tcaaggctat ggtataagag atacagatga 60  
tcgagaaaaa caacacatgg gagttagtaa atcgccccca tcaaaaagat atcattgggg 120  
ctaagtgggt ctataagaca aagctcaacc ctgatggcac catacagaaa cacaaggcga 180  
ggctagtagc taagggttac tcacagcaat ccagaattga ctacaatgag acatttgcac 240  
cagtagctcg tcttgatacc atatgagctc taataactct tgcatacaca aaaggatgga 300  
gtatccatca actagatgtc aaatccgcct ttcttaacgc cgtacttgaa gaagagatct 360  
atgtggagca gccacaagga ttcgtgtctg 390

<210> 9618

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9618

ttagttaatt taattctact ttntccaaaa ataataataa tttttttatg ttaaatgata 60  
taagtaaaat atctaaatct ttacattttt cttataatac aaaattctaa aatattatca 120  
tatgatgtct ttagatgata aattattaga aataaattca aatgataaaa atattaaatg 180  
tggtatttca tgtaattnta catttatcaa ctagtttttt ggtaaatctt accaaactct 240  
ttcaactagc tttcgagttt ttttaactcc taactttagt cttataatct cccctttagt 300  
ttgttagctt tcacttatct tataagctag gtttatcaaa catagtctca attattatac 360  
tgtctacaca tttatggatt aaattcaaag ttatgttttc agagattaaa ctgtcaccca 420  
tatacacat 429

<210> 9619

<211> 387

<212> DNA

<213> Glycine max

<400> 9619

tgctactctc tggtaatcga tgaccagaac gctgtaatcg attgccagaa gcccaacatt 60  
tttgaaaagg gatcttcaga tgtgtaatag attaccatga ctttgtgatc aattacgaaa 120  
gcttatcaag ttcaaaaata gatcgaaaaa ccttgtaatg gattacacaa gacatgttat 180

cgagcactac tggctctgaa tgtaggaaat tcatattcta aatgaagagt cacaactttt 240  
 caagaaagat aactgtgtta tcgagtacac caagattgtc atcgattgct agtgtcaagt 300  
 tatgagaaaa tctggcaaca gtcacatatt ttcattcgat tgttaaattgg tcatcacagg 360  
 cctataaata aatgacttga tcacgaa 387

<210> 9620  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9620

tgtgcattca atatcctgat gaggatgttc catatgttct caagactgga ctaatacatt 60  
 tgctgcccaa gtttcatggg cttgtaggtg aagatcctca taagcatctt aaggagtttc 120  
 atattgtttg ttccaccatg aagcccccg atgtccaaga agatcatata tttctaaagg 180  
 cttttcctca ttctctggag ggagtggcaa aagattggct atactatctt actcccagg 240  
 ccattttcag ctgggatgac ctttaagaggg tgttcttgga gaaattcttc cctgcatcta 300  
 ggaccactgc catcagaaaa gacatttcag gcatcatgca acttantgga gaaaacttgt 360  
 atgagtactg ggaaagattc aagaaattgt gtgcaagttt ccctcacca 409

<210> 9621  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <400> 9621

tcttattcca tacccaatga tgctctttga ctgagagtta gaatgacatc ttttgactgg 60  
 acagatcacc aattcaagtc ttatagagat ttccttgtat cttagcaaag aagagtgaag 120  
 agttgtcctt attctagatg atacacatat cttattataa ggtgacattg tatccactgt 180  
 cacataattt atttatactc aatatgttcc aatcctttta ccagtaaaac attatctata 240  
 gtacgatagg gagaaatgca tactttacct acaccagtta tcaaaccttt cttattccct 300  
 caaaaagtga ccacccact agacataggg cttagggatt ggaacgcaga cttttcacct 360  
 gtcatgtgtc atgaacaacc actaatcaag taccatgatt ggtgttcttt cttgctataa 420

aaaagatgta caataggaat tatt

444

<210> 9622

<211> 433

<212> DNA

<213> Glycine max

<400> 9622

tgttcttgac tcattctctc cttgaagtgg catctccaat catctttctt ccattctccat 60

tttgctctca ttgatcttca agaagcaaag gactccattg atgaagaaca ttcaaggcct 120

acaagctcca catggagcta cattattttc tctagtaaca caccttaagt atgtttttac 180

tcctctattg accacctcaa ttgcccac cgtttgaggg ttatatgttg aactaaattt 240

caatttaatt ccagcagatt tgaataattc cctccaaaat tgactcagaa aattttttatc 300

cagataaaaa atgatggtgt ttggaaaccc atgtaatttc acaacctccc gaacaaatag 360

atcaggatatg tcatttgcag tgaaggggtg actaatgggg ataaatgag cataacttaag 420

tcaatctgtc tac 433

<210> 9623

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9623

taaccatgga acggtatgag ataattaaag atattgtgtc agggaaacttt ggtgtggcaa 60

agctggtcaa ggaaaaatgg agtggatgaat tgtatgctat caagttcatt gagagaggct 120

tcaagggtcc attttcaaac tccatgtatc ttttctgttg tcatacctta gtcttgatca 180

tatgtacttt ggattgtcct ttgttaatgg ggttctattg ggttttgcag attgatgaac 240

acgtgcaaag agagattata aatcataggt ccttgaagca tcccaatata attagattta 300

aagaggtgaag gaattggaga catttttggg ttcaatgagt atagtctcaa agtgaatta 360

tttgcttctt cggaagaaaa tcattccctt cctttagcta cttcttacca actntgtgaa 420

aatatatatg 430

<210> 9624

<211> 405

<212> DNA  
<213> Glycine max

<400> 9624

tagcttgtgt cacaattcac tgtgacagtc aaagtgtcat tcacttatca aatcaccaaa 60  
tgtaccatga gaggacaaag cacatagatg tgaaactaca cttcatcaga gatgtgattc 120  
aatttgagaa ggtgaagggtg gagaagggtt taacagaaga aaacacgact gatatgttca 180  
caaagtccct ctctagtgtc aagttcaagc actgcctgga cttgataaat tttgaagatg 240  
cctaaagcaa attggtagaa gtgcagccct gaatcgcaag atagacactc gttgatttgg 300  
agtcaagggtg gagatttgtg gtgtatgact caaaataaaa aatggcacia gtgagaaggc 360  
tttaaggaggt gctgtcataa ctgaattcag atataataac tgaat 405

<210> 9625  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 9625

gagcaaattc aaacaacaat aacttttttac tcagatgtct gattgcgctc tgtaatatat 60  
ctagacgctc gaaattgaat gttgaagctc tgagccaatc acacgacaat aacttttttac 120  
tcggatgatt gattgagctc cgtaatatata caagacgctc aaaattgaat gttgaagcta 180  
tgagccaatt caaatgacaa taacttttta ctcgatgtc tgattgagtc ccgaaatata 240  
tcgagacgct cgaaattgaa tgttgaacct ctgagccaat tcaaacgaca ataacttttt 300  
actcgatgt ctgattgagt cccgtaatat atcgagactg ctcgaaatga atgttgaa 358

<210> 9626  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9626

agcttcaaca ttcaaattcg agcgtctcgt tatattatag gactcattca gacatccgag 60  
taaaaagtta ttgacgtttg aatttgcctc gagcttcaac attcaatttc gagcgtgtcg 120  
ctatattacg ggactatatc agacatccga gtaaaaagtt attgtcgttt gaatttgcct 180

agagcttcaa cattcaattt cgagcgtctc catatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcggt tgaatttgct caaagcttca acattcaaat tcgagcgtct 300  
 cgttatatta taggactcag tcagacatcc gaganaaaag ttattgacgt ttgaatttgc 360  
 tcagagcttc aacattcaat ttcgagcgtg tcgctatatt acnggactat atc 413

<210> 9627  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 9627

agcttgaaat tgaacaacgg atgtctctct agaaattcca atgctcataa cttttcacat 60  
 ggatgtccga ttaaagagca taatatatcg agacgctcga aatttaacaa cggaagctct 120  
 cgagaaatgc aaatggcat aactttttac acggaagtcc gattcgggcg cataatatat 180  
 cacgacgctc gaaattgaac aatggaacct ttcgagaaat tcaaatagaga taacttttc 239

<210> 9628  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 9628

agcttgtgcc tcttcacgtt tggaatatga atgtagcata tagatccaaa gacccttagg 60  
 tgctttgttg atggtttctt cccgttccaa gcttcaattg gagtcttgct ttttacagac 120  
 ttagttggac atctattgag tatgtaaata gcagtgtaga ctgcttcagc ccaaaatgtg 180  
 ttaggtagtc ccttctcctt gagcatcgat ctagccattt ccataattgt gcgattcttt 240  
 ctctcggaca ctccatttt 259

<210> 9629  
 <211> 173  
 <212> DNA  
 <213> Glycine max

<400> 9629

caatacccca taaatctaac ctctaagggt tctaagtagt cctaccacaa aatccataga 60  
 agtagtgccc cacttccact ggggtatctc taaaggttgt aacttccccg aaaggttctg 120



atgatctatc ttagccttct gacagactat gcatgcatac acaaactcac taa 173

<210> 9630  
<211> 197  
<212> DNA  
<213> Glycine max

<400> 9630

ttactatgca gataatatcc aagaaaaata ccttcacatg acttagcatc aaatcttcc 60  
aagttatctt tgccttattc aatacaaac atttacaacc aaagatatga agatgtgaga 120  
tggttggttt tcttccattg aacaattcat atggagtttc tttcaaatgg gtcttaatta 180  
agtcctatct aaaatct 197

<210> 9631  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9631

aactaccata agggaaaaga gcctagtgtg cttagcgcat gtttagaac aagccagact 60  
aggcaagtaa agttgtgaga aacaagacaa gattgttgcc aaagggtact cacaatatga 120  
aggtatagac tatacataaa cctttgctca tgttactcgt ctaaggcaat acacattata 180  
ctctcattta cagctcatac aaaaatgaga ctatatcaaa tagacgtaaa aagtgcattc 240  
ctcaatggag caatacaaga agtagtccat gtagaacaac cccatgggtt tgagggtaac 300  
actnttccac accatgtatg taaacttaat aaagctttgt atggacttaa gcaagctctt 360  
agagccttgg atgaatgtat caaatcattt ctttaagcaa tggatttgac agaggaa 417

<210> 9632  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9632

agcttataga atatataata aaagaacatt gacaattgaa gagtctattc atgtttcctt 60  
tgatgagtct aatgccattc ttccaaggaa ggatttttta gatgatattt cagattcctt 120

agaagataca catattcatg gaaatgactc taaagaaaaa gatgaaggaa gcaatgagga 180  
 ttctcaagat aatggagtta gaggaataa tgaacttcca agagaatgga aagcctcaag 240  
 agatcacccc ctcgacaaca ttattggtga tatatcaaaa ggggtaacaa ctagacattc 300  
 tcttaaagat ttatgcaata atatggcttt tgtatctatg attaaaccta anaatataaa 360  
 agaagccata ataaatgata actggatcat tgtcatgcaa ga 402

<210> 9633  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 9633

tatgttgcaa acattttacaa tagacctcct caacctcttt agaaaatcaa ccacaacaga 60  
 acaattatga cctctccagc aacatatata atccccgatg aggaatcatc ctaatctcaa 120  
 atggtctagc cctcaacaac aacaacagca gcctgctcct tccttccaaa atgttggtgg 180  
 cccaagcaga ccatacattc ctccaccaat ccaacaacag caacagcccc aaaaacaaca 240  
 aacagttgag gttcctccgc aaccttcctt cgaataactt gtgaggcaaa tgactatgca 300  
 aaacatgcag tttcaataag agaccagagc ctctattcag agcttaacta atcagatggg 360  
 acaattggct acacagttaa atcaacaacc agtcccaaat tctgacaagc ttgcttctca 420  
 atctgtccag aatcccaaaa ttctacacat 450

<210> 9634  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9634

agcttccttg aaaagattcc taaagaagct agagcttagc tacacacacc tctctaatag 60  
 ctaagctcac ctcttgaga tgagaagctt gaacttagct acacaccccc tataatagct 120  
 aagctcacc ccatgacaaa atacatgaaa atacaaaaaa aagtctgtac taaaagact 180  
 actcaaaatg cctcgaaata caaggctaaa accctatact actattatgg ccaaaatata 240  
 aggctaaac gaaggaaaaa aaacctattc taatatttac aaagataagc gggctcatat 300  
 ttaacccatg gggtcaaaat ctaccctaag gctcatgaga accctanggc cttcccttgg 360

atctctggcc caatctactt ggagtcttct at

392

<210> 9635  
<211> 429  
<212> DNA  
<213> Glycine max  
  
<400> 9635

agcttaaaaa ccaactggta gttgaaactt aactaaaggt tatgtttgac aaaactaatt 60  
ggaagcttaa aagcttaaaa actagctagt caatatttta tgtaacactt caaattcttt 120  
ttccaaaaat ttgcttcaaa aactatttaa ataataaata ttatgaaatg tgtcattttac 180  
tcttaatttc tatttctaag ttggcaaagt atctcatcaa ttttcttttt ataaattaga 240  
tgaaataaaa taaagtaaaa taagtgtgtt gcttgaaaaa tgcaagtttt cacatcacaa 300  
tattaaattt gttaaataat gaacttaggt ttataatatg atgcctttgc cgcaaataaa 360  
gcaaataaat agtctcacac tagaagaaat ttggatacaa cccacagtgt aaaagtagtt 420  
aaatgattg 429

<210> 9636  
<211> 358  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9636

agcttgtagg cctttgatct tcttcattat tagagtcttt tgcttcttga agatcaatgg 60  
aagtggaata gagaaggagg aaaggtgatt ggagatgcca cttcaaggag aagatgagtc 120  
aagaacaagc tcactaccat aggaagccat ggataagagc ttgaaggtag gagaaaatga 180  
gtggagggag aggcagagag gggggaacaa aatttatgcc tcaaatgagg tcagaacttt 240  
gaagtcta atttctcaaatg atcaaagtgt aaaaaattca cacacaaggc ctctatttat 300  
agcctaagtg tcacacaaaa ttggagggaa attngaattt ctattncaaa ttatcttg 358

<210> 9637  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9637

ctatgctgca natatntaca atagacctcc taacctatct tcgaaatcaa cctcagcaga 60  
acatatattga cctctccagc aacagatata accctggatg aggaatcacc ctaacctcag 120  
atggtccagc cctcagcaac aacaacagca gcctgctcct tccttccaaa atgctgctgg 180  
cccaagcaga ccatacattc ctccaccaat ccaacaacaa caacaacccc aaaaacagcc 240  
aacagttgaa gcccctccac aaacttcctt cgaagaactt gtgaggcaaa tgactatgca 300  
gaacatgcat gtttagcaag agaccagagt ctcaatttag agcttaacca atcagatggg 360  
acaattgggt acccaattga attaacaaca gtcccagaat tctgacaagt tgtcttctca 420  
agctg 425

<210> 9638  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9638

tggttcatat cattattaga ttacatatta ttctcttatt tatgattaga tactatatag 60  
tgatttagtc cttattactc tttattaaat tgaggcgac cctggtgcag cggtaaagtt 120  
gtgccttggg gacttggttg tcatgggttc gaatccggaa acagcctctt tgcatatatg 180  
caagggtaag gctgcgtaca acatccctcc cccatacctt cgcatagcga agagcctctg 240  
ggcaatgggg tacgaagttt ttttttttta ctctttatta aattgatact ctataatcaa 300  
tattaatcct atttgttcat tataaataaa gacttagtgt ggtcatccaa cacacacaca 360  
acattacagt aaaatacttt tatatattaa catctttgag agaaatatca tatcatgtac 420  
acttaaanat aacagcaata taatga 446

<210> 9639  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 9639

tggttcgagg tacttaccgg tagaagatcg aagaacgatg atgaacgaat gattaacgtc 60

gaataacggt taaaacctgt tagtgcttat ctctactgac tttaaaagat aggctaagat 120  
 tttgttaaaa cataagcact tatacaatga aggaaagctg gagttgctgc acatgatgtc 180  
 caacgttatg tcaaggaata agatcgggct gcacaatgca caaggcaaga taaaatgtca 240  
 aatgaagaat tgaaagtgc ggatccacga tgtcggatac aatgtcctga catcctgccc 300  
 gagaatactg gagttgctgt acaatgcaag ataaaagtca agtgcagaag tgaagct 357

<210> 9640  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9640

tcaagatatt atttgatgat gccaaagaat ttcaaagatc tttaaagatg aatttcaagg 60  
 atgatgaaag caagatgtca agcaaagcaa agatctcaaa taagaattaa gatagactct 120  
 tagaaaagtt tctgaaaaac acaaatgata ggccaagtga gtttctatct taacaaaaac 180  
 ttttccaagc attttactct ctggtaatcg attaccagag gttgtaattg attaccagtg 240  
 gccacaaagc tttctgaaa tgttttcaaa gttattttca aagttttcaa agttgtaatc 300  
 gattaccaat gctttaaaac agttaaaaat gattntgtaa atatgtaatc gatta 355

<210> 9641  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 9641

agcttaaagt ccattatgga tgcataaggct aataacattc tgattgtttc taatctagca 60  
 actagagcac atgtttcctc ataatctatc cctcttctt gggtatatcc tttggcgact 120  
 aatctagccc tatttctaata aattattcct cttggaagat cataatttgt tttgacttca 180  
 tcaacttgag agtcttcatt gtttatttct ccttttcctt tatgatattt tccaagaata 240  
 tgtatttctt cttatgattc tgaaatatca tctagtatat cctttcttgg caaaatagca 300  
 ttagattcat caaaagaaac atgaatggat tcttcaataa tcatagttct ttgggtatat 360  
 attctatatg ctttactctg caatgaatat ccaagaaaga t 401

<210> 9642  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9642

taacacaagg catgcgaagt ggggtggaatt cctagagtta ttcccttatg ttatcaaaca 60  
 taaaaaggga aaaggtaata ttgtagccga tgctctttct ggcgtcatgc attactttct 120  
 atgcttgaaa caaaattgat tggctcttgaa tgtttgaaaa gcatgtatga aaatgatgaa 180  
 acttttggag aaatttttaa aaattgtgaa aaattttcag aaaatggttt ctttagacat 240  
 gaaggctttc ttttcaaaga aaacanaatg tgtgtgccta aatgttctac tagaaatttg 300  
 ctggtttgtg aagcacatg 319

<210> 9643  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9643

tggcatttat tcagctgcaa ggtacaagat ttaaccatag cataatatgt ttctcaactc 60  
 tttaaataatt tagctctatg catatatgat tggggtaatt tgcaggattt ttacttgtgc 120  
 aaatgtgatg cctgggtcac ttgggtatgg agagcaagat gccaagactt tcgcatcatg 180  
 ggtatataac actgcttctt tcttaaattt gattattcct ttgcttcac tcaaacatat 240  
 cagttgctat ttaacaaacg ggtattatca tcattgtttt atctttctta ggggtgttgat 300  
 tatcttaagt atgacattng taacaatggg ggaacacagc ctattgatag gtatgtaaaa 360  
 tagttatatt ttcacaacac tgttatata 389

<210> 9644  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 9644

cacctatgtc tgcaagtcatt ttgatgttgc aagcaaggtc gatagccagc tgaaatagtg 60  
 atttggccca tgttctcaag tctctctatt catgggtgcat ccattgtggc tgccattctc 120

aatgaccggt tatgagctca acttctgcta cacaaagaag gattagtagc tgactatctt 180  
atgattcttt cccactgct cttttttttc tctgatgaat actagtcttg aatggcactg 240  
tcacatggta aagaatatga tggctacttcg atatgtatag aggccattct ccaatatatg 300  
gttgatttaa tgggagatcc taatgacatt gc 332

<210> 9645

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9645

agcttgctnt ntgtgctttt cattgcttta attgttgaat aatccttgga aatttgcttt 60  
gttaaaactc tattggttta gctttcattt catttttttt ggtcttttggg tattgcttgt 120  
ctctttgttt ccttgcttgt gaggttgcat atagggaatt ggaaatgagg attggtgcca 180  
tatcttaaag aatttgagtc aagaagcaag gggccaacca ccttaagagc tattggacta 240  
agaagcactc caaattgagt gaaacactaa agagagaata gccaccacaa ttgaggactn 300  
ttttctttgt aattttgtaa ttggcaattt gctntgcttt caaattttgt aacaaaaagg 360  
cctttcattg gaagtaagtt gggagcctct gctangtcac cctactttca tttgtatgta 420  
ata 423

<210> 9646

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9646

agcttactaa aacctttgat cttgttgata gacttggatc tatgagaatc atgcttgcct 60  
ttgttgctca taaaaacata aatctttttac aaaaggggtg taagagtgcc tttttaaatg 120  
gtttcattga ggaggaactc tatgtttaag aacctcctgg ttttgaagat cacactnttc 180  
tagatcatgt gtttaaactt aaaaatgcta tgtatgattt gaaacaagca cctcgtgcat 240  
ggtatgatag actgagctct tttcttttag aaaatggttg tttcggaggc aaaagtaata 300  
ctactctttt tagaagagaa gtgggaatgg tttcattata ttttaattat gtagatgata 360

tatatttgga gtactaatg

379

<210> 9647

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9647

cctctncacg tctggaatgt gaagagcata tatatccata gacccttat gtttcttgac 60

tatcggcgac agttcaatcc agactgatga aaggtgatgg agactcccct tctaagagaa 120

gatgagttaa gagcaagctc accaccataa gaagccatgg ataagagcct gaaggcagga 180

gaagatgagt ggagggagag ggaaagaggg gaacaaaatt ttgagagaga taagaggag 240

aatgaggtct aaagtttgaa gtctaatttc tcaaattatc aaagttgcaa aatgcataca 300

caaggcattt atttatagcc taagtgtcac ccaaaattgg agggaaattn gaatttctat 360

tc 362

<210> 9648

<211> 307

<212> DNA

<213> Glycine max

<400> 9648

agcttttgca agctggaatc atacatccta tgtttgacag ccagtgggtg actgccgtac 60

aggtagtccc gaaaaagacc atcctcacag tgataaagca tgagacggag gagctgattc 120

ctactcgggt gcacaataaa tggagagtct gcattgacta tacgaggcta aagcatgata 180

ccaaaaatga ccattatccg atgccataca gtgaccagat gcttgaatgc ctggcaggga 240

aatctcacat agctggtcct tgatggtttt tttggatata tgcttataac tattgctcat 300

gaggatc 307

<210> 9649

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9649



agctntagtg tttagtgtca agtcttatgt tttactgtgt agggctcta ccttaggggt 60  
taggatttag ggtgtagggg ttatggttta gaatttagag gtaatggttt aggggtcaagt 120  
cttagcgttt aggggttagg ttttacgggt taggggtgaa ataaaattac tccagactca 180  
tatgcatcta atgaaataaa attacattta gaagttgaaa taaatggagt ggatcaagcc 240  
aggttgagtg acttttagtta tccataagta aaccttaata aactgaatac catacattac 300  
gtgtgaaatt caaatgagaa atatacaaca aaatatataa acggagacat gcaaatacatt 360  
cattt 365

<210> 9650  
<211> 389  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9650

gcttgtgcct cttcacgtct ggaatatgaa tagcatatag atccaaagac ccttatgtgc 60  
tttgcctgatg gcttcttccc gttccaagct tcaattggag tctgtctttt acagacttag 120  
ttggacatct gttgagtatg taaacagcaa tgtagactac ttcagcccaa aatgtgttag 180  
gtagtccctt ctcttgagc atcgatctag ccatttccat aactgtgcga ttttttctct 240  
cagacactcc attttggtga ggagaatatg cgactgtaag ttttcgctca atgccttcat 300  
cctcacaaaa tctttcanac ttgcgagagg tgtactcttt tccgtgatca cttcttaata 360  
cttttattca ttttcactt tgatttttc 389

<210> 9651  
<211> 379  
<212> DNA  
<213> Glycine max  
<400> 9651

cctcttgccct gtctctatat aaccttttgg gggggtcata tagatgtgtc cctctaaatc 60  
cccatgcagg aatgcaattt taacatctaa ttgctccaag tgaagattct ctgcagctac 120  
tataactcaga ataactctga tggtagtcat ctttacaact ggagagaaga tctctgtgaa 180  
atcaattcct tgtttctgct gaaacccttt caccataagt ctgccttgt atcttcttct 240

accgtcagat tcttccttta gcctatagac ccacctattc tgtaacgttt tctttccttt 300  
tagcaattta gtttagagacc acgtcttagt cttatgaagg gatgtcatct catctttcat 360  
cgctagctcc cacttaata 379

<210> 9652  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9652

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gtgactaaag tcagaatagt tctgattctt ataggtttca caactaggga aaatgtttct 120  
ttgaaatcaa aaccagggtg ttgatggaag ccttttgcta caagacgtgc cttgtactta 180  
ctgacagacc catctgaatt atgcttgact ctaaaatccc gcttgcaacc aattgggtgc 240  
ctattaggag gtttaggaac cagttcccat gtattgcttt tgagtagtgc aaccatttct 300  
tcatccatag catctttcca cttanggatc ttaagtgtng ttnttgacag tttaggcaca 360  
acatgagtta aaagccaggg tgggtggagt ctaggcttga caattc 406

<210> 9653  
<211> 297  
<212> DNA  
<213> Glycine max  
  
<400> 9653

agcttgtgca tccaataccc tggtgaggat gtcccatatg ttcttaaaac tggactgatt 60  
catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120  
tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180  
aaggcttttc ctcactcatt agaggagtg gcaaaggact ggctgtatta cttgctcca 240  
aggtccatca cgagctggga tgaccttaag agagtattct tagaaaaaat tttccct 297

<210> 9654  
<211> 319  
<212> DNA  
<213> Glycine max  
  
<400> 9654

agcttcaaca ttcaatttcg agcgtctcta tgtattacgg gacttaatca gacatccgag 60  
caaaaagtta ttgtcgtttg aattagctca gagcatcaga attcaatttc gatcgtctca 120  
atatattacg ggactcaatg agacatctga gtaaaaaagt tattgccgtt tgaatttggt 180  
gagagcttca acattccatt tcgagcgttt cgatatTTTA cgggactcaa tcagacatcc 240  
gagtaaaaag ttattgtccg ttgaatttgc tgagagctcc aacattcaat ttcgagcggg 300  
ctgatgttta cgggactca 319

<210> 9655  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9655

agcttctcac tcncttgaca ttcatgggag gaggaagttt ctcaatcaca tcaatctttg 60  
ccttgtccac ctctattccc cttactattc cttcttgaac catgaatgac atttctccca 120  
attgagaact agattggact cttcacatct ttgtaatact ctttcaagat ttgataagca 180  
ggcttcaaaa gatggcccaa aattagagaa atcatccatg anaacttcaa tgcatttttc 240  
caccatatca gaaaaaatag ccatcataca cctctgaaat gtagttaggg cattgcatag 300  
accaaaaaggc atgcgccgat atacgaatac accaaaaagg caggtgaaag tagtactctc 360  
ttgatcttgg gatctacaaa at 382

<210> 9656  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9656

agcttatgtt gcactttcaa cttctcgaag ctaaatatgt agttgtagga agttgttatg 60  
ctcaaagtct taggatgaag caacaactag aagactttgg agtaaacctt gatcacattt 120  
agggattagg catatagaaa taaggcatca ttttcttaga gatcatgtgt taaaaggtta 180  
caactacatt gacttcattg atagtaagca tcaactagca gacattttca ctaaaccgct 240  
tgctagagat aggttctttt tcattagaaa ggaactaggc atattggatg catctagcat 300

agaataatat tttgtttgca tagtgtgtga atcatatngc tattcatatc att 353

<210> 9657  
<211> 347  
<212> DNA  
<213> Glycine max  
  
<400> 9657

agcttttgtt tacttttttt attaaattat tattattgac tcaaagtgg atttaattatt 60  
tataaatata tttttatgaa tctaattact gtaatatatt gatatgggtca agattttaca 120  
ttatcattta cttttttatc gttatataag atgataaaat tgtaattttg taataaaaaa 180  
acttattatt ttaacaccat ataactaatg tatagtataa tttgttctac gtcataata 240  
tatcagaatt aacatatact gttatttgat ttagtcttct acatattttt attattttct 300  
tatccctoga ttaagattat tttttaacat catgagaata tattttt 347

<210> 9658  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9658

cggaccttaa gcaccgcggc tgcaagcttt gtggtacata aaacgggtgct tggatagcct 60  
gatcgctagc tgccatgttc tcaatgagtt ccatcacttc ctcggtgtgc ttttaactga 120  
tctttcctcc cgtggatgcg tccagtaatt gcttcgattg aggtcgtaat ccatcaataa 180  
agatgtttaa ttgtactagc tcgctatatc catgagtggg cgttttcctt aacaatccgt 240  
ggaaacgatc taaggcttcg ctaagggatt catctagtaa ttgatggaaa gatgagattt 300  
ccaatttccc ttcagctgtc ttggattcan ggaagtactt tntcataaat ntctctacaa 360  
cttctttccc aagtctaaa ggt 383

<210> 9659  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9659

tgcctatagg ttggacctcc cagaagagta tggagtcagc accactttta acatttctga 60  
 tttaactcct tttgcagggtg gagctgatat tgaggaggag gaactaacag atttgaggtc 120  
 aaatcctctt caaggggaag aggatgatgc aatcccccta tgaagggaacc aatcactaga 180  
 accatgagca agaggctcca agaagattgg gctagagctg ctgaagaaag ccctatgggt 240  
 ctcatgaacc ttanggtaga tttctgagcc catgggccaa ggttgggtcc aattatcttt 300  
 gtacatatta gactaggatg tcattatatt tggtccttg a 341

<210> 9660  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9660

agctntgtgg catagaaagc tttatntttt gataagtta gatatcctga gaattctgct 60  
 catggtcaac tcccaagaac agtggatgta attgcagaag acgacctgtg tgattcttgc 120  
 aagcctggag atcgagtggc aattgtgggg atatataagg ctcttgcaag gaaaaggtag 180  
 tgtgaatgga gtatttaggt agctccagaa aatatactga cataactcct ttgcacttgc 240  
 ttgctttctt gaacagaaac ttgattgact gattttcatg taggactgtt ctcatagcca 300  
 acaatgtttc tcttctcaac aaagaggata atgcaccaat ctacagtgtt gaagatgtca 360  
 aaaacattaa agagatagct acaagagatg atgcanttga tctgctaagt gattcacttg 420  
 caccttctat atatgggcat tcttgga 447

<210> 9661  
 <211> 356  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9661

ggaactactt cacatggtca ttatggggcc tatgcaagtt gaaagccttg gaggaaagag 60  
 gtatgcctat gttgttgtgg atgatttctc cagatttacc tngttaaact ttatcagaga 120  
 gaaatcagaa acctttgaag tattcaaaga gttgagtcta agacttcaaa gagagaaaga 180  
 ctgtgtcatc aagagaatca ggagtgacca tggcagagaa tttgaaaaca gcagggttcac 240

tgaattctgc acatctgaag gcatcactca tgagttctct gcagccatta caccacaaca 300  
 gaatgggata gttgagagga aaaacaggac cttgcaagag gctgctcggg tcatgc 356

<210> 9662  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 9662

agcttcaaca ttcaatttcg agcgtctcgt tatattactg gactcaatca gacatccgag 60  
 taaaaagtta ttgtcgattg aattggctca gagcttcaac attcaatttc gaggggtctcg 120  
 atatattgcg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180  
 agagcttcaa cattcaattt cgagcgtctc gatatatgac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcgtt tgaattggct cagaggttca acattcaatt tcgagcgtct 300  
 cgatatacta cgggactcaa tcagacatcc gagtaaaacg ttattgtcgt ttgaattggc 360  
 tcagaggttc aacattcata ttcgagcgtc tcgatatatt acgggactca atcagacatc 420  
 cgagtaaaaa ttattgtcgt ttgaattggc tc 452

<210> 9663  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 9663

tgtagggtta aagtctcacg attgtcacgt gctcatgcaa taattgtag ccgtggctat 60  
 acgagacatc ttgccaaaca aagtcagggt agcgataact cgcctgtgct ttttcttcca 120  
 tgctatatgt agcaaagtca ttgatccagt caagtttgat gagatggaaa atgaggccgc 180  
 aattatattg tgccagttgg agatgtatct tccccctgct ttttttgaca tcatgattca 240  
 cttgattgtg catctgggtc gagaaatcaa atgttgtggt cctatttatc tatgggtggat 300  
 gtacccgatt aagcgatgca tgaagatctt aaaaggggtat acaaagaata tatatcgtcc 360  
 aaaagcatct attgttgaga ggtacattgt agaagaagcc atttgaattt gttcagaata 420  
 cttagag 427

<210> 9664  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9664

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 tttgtatgag catttctatt ttgtctcttg taatggagta agctagctta tgctattgaa 120  
 attaatacatt tgtcaccatt attcttaatt ctctcttctc ttcacaggta caaggtagca 180  
 ttaggggtgg ctttggccct tcgttatctt catgaggatg cggagcagag tgttcttcat 240  
 agggatatta agtcagctaa tgtgttgttg gacacggatt ttagcaccaa gcttggcgat 300  
 tntgggatgg ctaagttggt ggatccaagg ttgaggactc aaaggacagg gctggtgggg 360  
 acttatgggt accttgcccc agaatatat 389

<210> 9665  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9665

agcttagcta cacacacctc tctaatagct aagttttcct ccttgagatg agaagctaga 60  
 gcttagctac acaccccta taatagctaa gctcaccccc atgacaaaaa acatgaaaat 120  
 accaaaaaaa agtccttact acaaagaata ctcaaatgc cccgaaatac aaggctaaaa 180  
 ccctatacta ctagaatggc caaaatacaa ggcccaaacg aaggaaaaag ctattctaata 240  
 atttacaag aagagtagat ccaaccttta cccatgggct caaaaatcta ccctaagggt 300  
 catgagaatc ctagggcctt ctttagtagc tctagcccaa gcctcttgga gtcttctatc 360  
 caataccctt ggggggtagg attgcatcat cccctccagc ttggaaagga tttgacctca 420  
 aatcccaggg ttcttcatac tctaggctcc ttccctc 457

<210> 9666  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9666

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gcctagttca tttctaataa aaaagaacct atctctagca agtggtttag tgaaaagtct 120  
gcttggtgat gctcactatc tatgaactca atgcaacaat caccttttaa cacatgatct 180  
ctaagaaaat gatgcattat ttctatatgt tcagtccaat aatgcatgcc agaattttta 240  
gttagattga tcacacttgt gttgtcacat tttagaggaa tgtgatcaag gtttactcca 300  
aagtcttcaa cttggttgett catccagaga ttttgagcac aacaacttcc tacaactata 360  
tattaagctt cggtagtaga agtgctaca 389

<210> 9667

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9667

gacactataa aactcagctg gaagcaacac agcttataag agccaccttt ttctctgctt 60  
aagagttcta cgggggggga gttcacagta cccttataat cttgggtgga gttaagcacc 120  
tcaaattaat gtgagcacca tattaattat caactggtga attcaattaa gttcttaatt 180  
atattccaac aacaagatcg cagaaattaa cctgaaagaa agaggtttga gagggatcca 240  
gcctgtggtt gccaggagga acaacaacat caatagggtgc aaccaaccct acacgagcag 300  
gagctaccaa ctgtatagaa aatntggata acaacatcca aaagtgaata tataggaagc 360  
tcacaactta attaaaggta actttctctc attcaacata tatatacact acactcaatc 420  
atagcat 427

<210> 9668

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9668

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attaagaact agctcttttc ttctcttatt gccttttagtt gaatacacct ttgtttgggt 120  
ctctatttgg ttcttaacct tctcatgcat cttctttaca aattctgacc tagattcccc 180



ttctttatgt ataaaaaaag tgtccagtgg gaggggaatg aggtctaacg gtgttagggg 240  
attgaaccca tagacaacct caaaagggga ctgcttggtg gttctatgaa ccccccgtgt 300  
gtaggcaaat tctacatgag aaagatactc atcccaagac ttatgggtgc ctttcagaag 360  
agcccttana aggggtggata aagacctatt cactacctct gtttgcccat cagtttgtgg 420  
atg 423

<210> 9669  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9669

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catttgctgc ccaagtttca tgggtcttgca agtgaagatc ctcataagca tcttaaggag 120  
ttccatattg tctgttccac catgaagacc cctgatgtcc aggaagatca tatctttcta 180  
aaggcttttc ctcatctctt ggaggaagtg gcaaaagatt ggttgacta ccttgctccc 240  
aggtccatta ccaactggga ttacctgaag aggggtgttct tggagaaatt cttccctgca 300  
tctaggacca ctgcaatcaa aaaatacatt ttatgcatca ggcaacttag tggagagagc 360  
ttgtatgagt actgngaaag attcaagata ttatgtgcaa gctgtcctca ccaccaaatt 420  
tctgagcagc tccttctgca atatttctat gagggac 457

<210> 9670  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 9670

tgaaattgaa caacggaagc tcttgagaaa ctcaaattgtg ttcattctctg cacacggaag 60  
tccgattcaa ggcgataata tatcgagatg ctcgaaattg aacaacgaat gctctcgtga 120  
aattcaaatt gtcataactt gtcacacgga agtccgattc aggtgcataa tatatcgaga 180  
cactcgaaat tgaacaacca aagctctcga gaaattcaaa tggtcataac ttttcacacg 240  
gaagtctgat tcaggcacat aatatatcga gacgctcgaa attgaacaac gtatgggtgtc 300

gagaaattca aatgggcata acttgtcaca cggatgtccg attcaagcac ataatatatc 360  
 cagatgctcg aaattgaaca tcggaagctc tcgagaaatt ccaatgggtca taacatttca 420  
 cacg 424

<210> 9671  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9671

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 aaagtccgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac gaaagctctc 120  
 gaggaattca aatggtcata tcttgtcaca cggaagtccg attcaggcgc ataatatatc 180  
 gagacgctcg aaattgaaca acggaagctc tcgagaaatt caaatgggtcg taacttgtca 240  
 cacggaagtc cggttcaggc gcataatata tcgagacgct cttaaattgaa catcggatgc 300  
 tctcgagaaa tgcaaatggt cataacttgt cacacggaag cccgattctg gcgcataata 360  
 tatcgaaacg ctggaaattg aacaacggaa gct 393

<210> 9672  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9672

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 atccatcata ttgacaaatg tatttcaatg atagtgtttt gtgggttctga tgtttatgtg 180  
 ttcatgcgtt ttggcatatt gattgcagtt tctatgatcg ttcatctcca atctacaccc 240  
 aaccacgata tttgcctccc tctaagatgc ttgatgctga tgtcactgat agtgttattg 300  
 gtgaaggatg tgtgattaag gtaagcattt cagaaccttc acattctact gatctgctct 360  
 gtacatgaga attatacaat tcttaacaaa gatgtcaaat ataatgagat taatttattt 420  
 ataggaaact aaccttgtat tccatact 448

<210> 9673  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 9673

agcttatctc atttcatttt atatcaacta ttgtacacaa ggaattacat gataaaatgc 60  
 tgagagagta gcataaaatg gagccacctt gctaactcat gagacatccc atttgtttgt 120  
 ctcttgacca aaacctattc caaagggtga aaattgggcc aaaacctgtt agacaaatga 180  
 cctcagataa cttaagaagg ggggttgaat taagatattg caaactattt cccaattaa 240  
 aattctattt taatttcaat gcaagttaca agttccctta aaaatgaact cttaaataat 300  
 gattcaaata aaacaatctg aatataaatg caaagcaata agaaataaaa tagtttaagg 360  
 gaagagaaag tgcaaactca gatttatact ggttcggcca cacccttgtg cctatgtcca 420  
 gtccccaag 429

<210> 9674  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 9674

tgacgttcca attgctggaa cacagagctg cactctcct cttgattatg atgtagaatc 60  
 tacagccaac gacttagaat aatgggggtca ttccgaaaca tctcctgtag ttcttcaaga 120  
 aggtgagaaa ttagaagatt tcagtgcaaa tgaatctcat ttgactgttg aacctgatcc 180  
 tccacagctc aattctggaa tcaatcagag accaaaaagg atcactatac ctctgaaag 240  
 atacggattt gaagacatgg ctgcctatgc attacatgca gttgaagaaa tagattcaaa 300  
 tgaaccaacc acttaccaag aagctatcaa tcctcctgaa gctgagaatt gggtgttagc 360  
 tatgaaagac gaaatggaat ctttgtataa gaatcagacc tggaaacttg ttgaact 417

<210> 9675  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9675

agctntctct ggtctacaag agctctttct ttctcataca cttcttctgc aaatggaaac 60  
acgttctaca aactcccagg tggttgtctc aaaccaggag agaatggtaa gatcttgctt 120  
atttttttct aaatataata gtctgaaaat aacaactcat gattatctta atgtacattt 180  
ttgtgggctt gaagagaaaag ttgactagca agcttgggtgc taattcatca gcttttgtgc 240  
ctaactggca ggtattatta ctttttattg ttaaatttgg cagttgggtg ctatttgtgt 300  
ctttattgtt gtcatttgca tgtatccttg gaaaactgca gataggtag tatgtagaaa 360  
tctggtgaag gctcttcttt tattgaagta cactgctaag ccacaatata agtgatcgag 420  
gccgtaccg aatcatataa acatga 446

<210> 9676  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9676

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aggaatccat tgatgaagaa gatcctaggc ctacaagctc aaatggagct tacatcatgt 180  
ggtatcaaga gcatcttcat ctaggtgatg ttcatttgc tctctatct ttttgttcgg 240  
tgaattctct ttagttcctt gttcttcac ttattctcca tgtatctct ccattgtctt 300  
gtggtttggt gctgtttaga gtatattcaa aaaaataaac cgattaaatc ttagatctac 360  
atttgttctt gcatttctct ggttcanatt ttgtagatct actcttgaat cttggttttg 420  
tgttgatttt aggttctatc aattntcatt cat 453

<210> 9677  
<211> 388  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9677

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cttgagacac aaatttgaaa agagttttca agaacaaaga ggtcttatcc tottaaaaag 180  
 caaaatagtt tctatcctct tacaaattcc ttggccaata cacttgtgat tcaataagga 240  
 attattnagag tgctcaaatt gttcaatcta tctctttcaa gagagatttc ttctcctctt 300  
 cttctttatt ctgaacaggg attaagagac cgacgggtctc ttgttgtgaa aagaattcta 360  
 aacaacaagg aatgattgtc cttgtgtg 388

<210> 9678  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9678

ngtctanagg tgtgtttgat tcccatatct tctactttgg caaaacaaaa tcaaaattga 60  
 acttctcttg ttcttcaggc ttggcagcag taccaccatt cctatcatta ataattgatt 120  
 ttgggtcttt aacgggttgg acaacctcag tgatagaacc caaagctttc tccttttgac 180  
 gagctggtaa atgatattaa atgattactt ttaaagtcag aatatcacat attactaata 240  
 atggcttaac atattaccat cataacgaat taatgactta ngtaatccat ttggtcgtaa 300  
 tgccctttca ttcacgcctt ctgtatactt gctcacttca acctgcattc tgtagtaata 360  
 gatgtattag cagtaagcat atttcagctg ttacttaata ctaaaa 406

<210> 9679  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 9679

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 tatatccaga cgctcgaaat tgaataccga agctctgagc aaattcaaac gacaataagt 120  
 ttttactcgg atgttogatt gagtcccgtg atatatcgaa acgctcgaaa ttgaagaccg 180  
 aatctctgag caaattcaaa cgacaataac tttttactcg gatgtctgat tgagtccgcg 240  
 aatatatcga aacgctcgat attgaatgtc gtagctctga gcaaatacaa acgacaataa 300  
 ctttctactc cgatgtctga ctgactcgcg tgatatattg agacactcaa gattgattag 360

cgaagctctg agacaattca gatgacaata acattttact cggatgtctg agtgaga 417

<210> 9680  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 9680

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cccgacaaag aactgacaa aaacttatct tctccttttt ggacaaagta tgacaagctg 120  
ggggcaaata aatattcttc ccatctgacc ttggatgcaa ctgtgatcat atccccatct 180  
cagctagatc atgacgggta ttcaagccat ccttctgtct gccttgaatg ttaaggagcg 240  
taccaatgac actgtcacat acattattct ccacatgcat aacatcaata caatgtctaa 300  
cgtctagatt agaccagtac ggaagatcaa agaaaatgga cttcttcttc catatgcaag 360  
tcttactttt a 371

<210> 9681  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9681

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tctttctccc catatccact atgcagcttg cagttagcat gaatggcctt cccaatatta 120  
caggaatgtc attatcttca cagatatcca ttaccacaaa gtctgcctgt tttactctga 180  
ccagcacatc ttcaattact ccatatggtc tggtaatgga gcggtcaaca agttgtaaag 240  
tcaccttagt gggcatgatc tcctactctc ccaaccttct gcacatggag agtggcatta 300  
agttaatact ggctcccagg tcaataagag cctttccac agtgacttct ccaattgaat 360  
aaggaatggg tactctcca gggctctatac gctnggtgg aaggacctt tgaatcacia 420  
cactacaatt tccatccaca acaatgtttt cctg 454

<210> 9682  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 9682

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atgagggttat ttcttcattc agctttgaag agaatgtcat ggatcactgt atatactaga 120
aggtcagtgg gagtaagatt tgtttccttg tattatacat agatgatatt ctacttgcca 180
ctaataataa gggatgcta tatgagggtga aacaatttct ctcaaagaac tttgatatga 240
aggatatggg agaggcatct tatgtcatag gcataaagat ccatagagaa agatctcgag 300
gcattntagg ctgtgtctca gaaacctata tcaacaaagt tttagagaga ttaacatga 360
aag 363
```

<210> 9683  
 <211> 451  
 <212> DNA  
 <213> Glycine max

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<400> 9683
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atgggataat ttcttcattt ggatttgatg aaaaccacat ggatcaatgc atataccaca 120
aggtcagtgg gagtaaaata tgttatcttg ttttatatgt agatgatatt ttacttgcaa 180
ccaatgatca aggtttgcta catgagggtga aacaatttct ctctaagaat atggacatga 240
aggatatggg tgatgcatct tatgtcatcg gcatgaagat tcatagagat agacctcgag 300
gtattttagg tctatcataa gagacctata ttaacaaaac tttatagtga atttgatga 360
aaattgttca ccaagtgttg ctcccatcgt gaagggtgat agatttaatt tgaaccaatg 420
cccataacat gacttttgaa gggaacagat g 451
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<210> 9684  
 <211> 442  
 <212> DNA  
 <213> Glycine max

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<400> 9684
cctgcggcat gcaagcttga aattgaacaa cggaagctct cgagaatata taatgggttat 60
aactcagcac acggacgtgc gattcaggcg cataaaatat cgagacgtc gaaatagaac 120
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aacgaatgct cttgagaaat tcaaattggtc ataacttgtc acacggatgt ccgattcatc 180  
 tacataatat atccagacgg tcgaaattga acatcggaag ctctcgacaa attgcaatgg 240  
 tcataacttt tcacaaggaa gcccgattct agcgcatcac gtatcgagat gctctgaatt 300  
 gaaaaccgga agctctcaag aaattgaaat ggtcataact tgtcacacgg aagtccgatt 360  
 cagacgcata atatatcaag atgctcgaaa ttgaacaacg aatgctctcg agaaattcat 420  
 atggacataa cttgtcacac gg 442

<210> 9685  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9685

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 tattagaatt tagccttttc aaaccgcca gctaataat gatgatgata tcagttctca 120  
 agctgaaaac aacggggtaa agcaaacaaa aatgaatata tatatataga gagagagaga 180  
 gagagagaga gagagattaa taaaaatcaa ttatatcttc aaaaacactt tttttaccat 240  
 attaaaatac aaatagactt gattaattat aaaattagtt gaaaatattt nttatattct 300  
 tgaaaataat taagattatg tntgattaaa ttatttgta tggaatatn tattatagtt 360  
 gctaaaatat ttttatcatt accttaagga tgttatntgt ttttttatct ttttat 416

<210> 9686  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9686

ggatcttaag caccgoggct gcagctgtgt agcgatatct tgctgggata agatnttcgc 60  
 acctattacc cagatgtcgg tgcagcttga taatagtttc ctctcttcc ttggtgtagt 120  
 ttctctttt gaggtttggc cttaggtaat tcagccacct tagtctgcaa ctctctccac 180  
 atctcgcaag acctaacaaa ttaataacaa caacaacaaa gtaaaaccaa ttacaatgga 240  
 ttcatatatg atttagctat aagctgtgca tgtatataat taaatattga atatatgggt 300



cctacaaatt catgtagaag ttaaaccaaa ccttgaaaac agagaagaag aaaaattgaa 360  
agccacattg gcgactatat tgatggtaca tactctcaca tacttaattt gtttctgacc 420  
aaactatttg ataagttcca ttcccacctg a 451

<210> 9687  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9687

agcttaagct ccttcaactg ctcatggctc ttaatatttg aagagtatcc ttgtggaacc 60  
ttcacccgac gaagacactg acaaaaactt atcttcttct ttttcgacca agtatgacaa 120  
gctgggggaa agtaaatattt cttccgatca gaccttggat gcaattgtga tcgtatcccc 180  
atctcagtta gatcttgacg ggtattcaag ccatccttcg tcttgcccttg aatgttaagg 240  
agcgtcccaa tcacattgtc acatacattt ttctccacat gcataacatc aatacaatgt 300  
ctaacgtata gatcagacca gtacagaaga tcanagaaaa tggacctctt ctccatattg 360  
cagtctactt ta 372

<210> 9688  
<211> 608  
<212> DNA  
<213> Glycine max  
<400> 9688

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tttatctctt ttctctacta gttcgtcaat tttcttcgat tctttgatgc cctgtttata 120  
gtaagagggt tataaatatg gagagaatct ttagtattga aaatataacc attgttgatc 180  
ttgattcttt ctccctctta ttgacagttg ttgtgtattt ttgattgatt ctagataaat 240  
acattctaaa atagtccttc ataactcaac atagccgtta gacatatata aggaattcta 300  
aaatagactt gtagatacat tccatttaat ggtatcattt aatattgcat aaactgattt 360  
attctagaaa gtgcataattt aaatatgcat ttggatggat ttggcaagta cttctcatca 420  
atcatgttta acatatattt aatcaaatag ttaacacaaa tttatatatt tattttcatc 480  
aaaatcttaa gagatgtgtg gatcatccta tgatggattg gctagtttct aatagtgaac 540

acatcactat ggaaaatatt gttaaaaagc tcaacccaaa agaagtgaaa atgttatata 600  
tgtacatg 608

<210> 9689  
<211> 644  
<212> DNA  
<213> Glycine max  
  
<400> 9689

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ttctattgcc atgatgaggt catctatagt tttaggagcc tctttgtgtt gtaatgactg 120  
aatggcatta aagaagccaa gatctaagac attaaaatca agcaagtttg ggggttgaga 180  
aaccaatcga atgtcaaac cgccttcact agcagcttaa tggaagtcgt tgtcatcttc 240  
atcaatgtga catggagcat tgtcttgttg tatgaaaata gtttctcttc tatcccctat 300  
tggccatttt gctttgattg cagacaacac atgatgaata agaaaatgtt tgcttacttg 360  
tttatttatt gaagatattg gttttgtttc catagtccct gtatctctgt ttgcactcct 420  
tctctttgcc ggttcctttg taacaaatgg aaaaatacca atcttgccat ctaaagtctc 480  
attgccatta gagttgaatc tttgtctagc catgacaata agaacataac cttgcaaag 540  
aaattcttgc ttctacatgt tcgatgtggc tctctctccc cagcagccaa gtaataattc 600  
atagagttct tgggtcatata aaaccatctt tcatcaatga atac 644

<210> 9690  
<211> 539  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9690

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aggtgagttt gaatccttac atatgaaaga gttagagtcc attttcaatt atttctcaag 120  
aattctcggt gtttcaaatc aactaaaaag aaatgggtgag aagttagaag atgtaaaaat 180  
tatggagaat atactacgct tgttagatcc caaatttgaa cacattgttg tgacaatcga 240  
ggaaacccaa gatttagaaa ccatgacgat aaaacaactt caaggaccac tacaagctta 300

tgaggagaag cataagaaga tgcaagaagc ataagaggaa gcaagagatc actgagcaac 360  
tcttgaagat gcaattgaag gagaatgaag aaagtcaagg aaatgaaaga agtcaacaag 420  
gtcgaggtag agctcnaagt cgcagtcgag gacaagttgg atgtggcaac aatagacgan 480  
ggttcaaatt catcagcaac agttacaaga aagggaaaag ctcaacanga gaacgtgga 539

<210> 9691

<211> 595

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9691

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attcctttta gatatgatat gtgccaccaa attgcttccc tgtgtctctt gaggacctct 180  
accaaccctg tctcttcttc tgccgtagc ttactgttga tcaccacagg cttgggtctcg 240  
ttcttttcca agaacatata ctttagatgg ttgggtagga tcttcagctc taccttggtc 300  
ttctcgaatg gactcaagct tttcaattct tcaaaacttg tcaccctgc aggaatgttt 360  
tcctcatgat ctaagtcttc caagaaagcc ctagatccc ttttctcat cactgggttag 420  
acaatctaca acattgataa aaactttctc caatgaattt tgtgtgggag agcaccaacg 480  
tcttttttat cgacctctc caccttgaag caccttctat cttcccctan gtatttaatt 540  
gcttcgaaag gttgaagttt accttttggg cgtcgacact cattttcaga ttacc 595

<210> 9692

<211> 493

<212> DNA

<213> Glycine max

<400> 9692

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ggtcctaaga caaaaccgaa ttgatggtat taaactcaac attcctocat ttaaaggaaa 180  
gaatgatccg gaggcctacg ttgagtggga gatgaaaata gagcatgttt tctcatgcaa 240  
caactatgag gaggaccaga aggtgaagct tgccgccacg gagttttccg actatgctct 300

tgtgtggtgg aacaagctac aaaaggagag agcaagaaat gaagagccaa tggttgatac 360  
atggacggag atgaaaaaga tcatgaggaa gcggtatggt ccggctagtt actcaaggga 420  
cttgaaattc aagctccaaa aactaaccoa aggcaacaag gtgggtgagg agtatattcaa 480  
ggaaatggat gtg 493

<210> 9693  
<211> 505  
<212> DNA  
<213> Glycine max

<400> 9693

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ttagaaggag acgacaatgc acctgtgaat agaggaaggt gccagaatt gcaatggcag 120  
caccaagagc attgatgggc tgaacaggcg tgtgaaagat aaggatggaa gagacaatga 180  
ccgaaatcct cttcattgtg tttccaatgc tgaatgttaa gggagaaatc tgatcaagag 240  
acatgtatga gacttgattg tacaagtggg agaagacact ctgggcagct acccacctgt 300  
aaacatcaaa atccattagt taacaacatt ttataaaggg agacataagg ttgggtgggt 360  
ggttaaggaa aaatgaaaag aaaaaagac tgaatttact cctccctgtt aatgaaaatt 420  
aacaaaacta acatctcaca tctgccaata ataaaattca tatagaggat acactatagt 480  
aatttggcca gcaccatgaa ataaa 505

<210> 9694  
<211> 537  
<212> DNA  
<213> Glycine max

<400> 9694

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aggtcagtgg gagtaaaata tgttttcttg ttttatatgt agatgatatt ttacttgcaa 180  
ccaatgatca aggtttgcta catgaggatg aacaatttct ctctaagaat ttggacatga 240  
aggatatggg tgatgcatct tatgtcatcg gcattaagat tcatagagat agacctcgag 300  
gtattttagg tctatcatag gaaacctata ttaacaaaat tttatagtga ttttggatga 360

aaattgttca ccaagtgttg ctcccatcgt gaaggggtgat agatttaatt tgaaccaatg 420  
cccacaaaat gactttgaaa gggaacagat gaaaaaaatt ccttatgctt cagttgttgg 480  
aagcctcatg tatgctcaag tgtgcataag gcctaacatt acttttgcag cttgaat 537

<210> 9695  
<211> 559  
<212> DNA  
<213> Glycine max

<400> 9695

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cttcaccaga ggataaggta ttactaatca ccacogactt tgcttcattc tcttccaaga 180  
atacatactt caaatgcgct agcaggactt tcaagtctac cttggggttc tctattgttg 240  
gattcttctt tagctcttca aagacacatt cccctaaagg aattaccttt agtttatcta 300  
ggacctcaa ataggcctta agatctctct cctcctcttt tgtgagacaa tcaatagcat 360  
tcatcaatgc cttctcaagt ggagagttag aggccatgtt ttgcaccccc atattagctt 420  
ttgctcaatt gtttccactt tgaaacacgc cttgtgatca ttgggatatt ttatttcttc 480  
acatgaattg aagggaactt ttgatcatca acactcattt ctaagttacc attgcccatt 540  
gtaactacac acttaactg 559

<210> 9696  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 9696

tcgtttcgcc accatttgtc accacaaaat ttagtgttct gtagaggtag tgaatagata 60  
tctatccaaa ttgttaaggg ctctcctaaa aggcaatcac aagtcttggg tgttggacaa 120  
gtgacctcaa taacttaaga aatgggatga atttaagtta aaaaatttct tatttaatgg 180  
actcttaa at cctttttaa tctattttat tagaatattg gagatgaaga tgaaaattat 240  
atcaacagaa tacttcaagt gtgcaagata aataaaatat gcaagataaa gtaatcaaga 300  
tagggaagag agaaatgtaa acttagttta tcctgggttg accacttcct gtgcctacat 360

ccagt

365

<210> 9697  
<211> 506  
<212> DNA  
<213> Glycine max  
  
<400> 9697

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cctagccttg caacaagtcc tagggaagta gacacggaga tggacaagaa aatccgcggt 120  
attgtgagta gcattctgaa agatgcttct gtgcctgatg ctgagaaaga tgttccaaca 180  
tcttccaccc cagatgtttc tgtgcctgat gtcaataaag atgttccaac atcctccgct 240  
ccaaatgctg aagccctccc ttcacccagt gaagaggaat caacagaaga agaggatcaa 300  
gcctcagagg agaccctgc accaaggga ccagaacctg ctccaggtaa cctcattgac 360  
ttggaagaag tcgaatctga tgaagaacct attgccaaca ggttggcacc tggcattgca 420  
aaaaggttac aaagccgaaa gggaaaaacc cccatcaaga ggtctggacg aatcaagact 480  
atgggccaga agaagagcac tccagt 506

<210> 9698  
<211> 534  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9698

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caagcactgc ttgtgacaat catatataat aaagctttga acctatcatg ccaatcaaag 120  
caaggacaga ccacagggga aataatcaac ttcattgagt ttgatgcaga aagagttggt 180  
gagttcagtt ggcacctaca tgatctgtgg ttagtagtcc tacaggtttt agtaggcttg 240  
ttggttttat ataaaaatct tgggcttgct tcaattgctg gttttgttgc aattctcatt 300  
gtaatgtggg caaacattcc cttgggttca acccaagaga agtttcacaa caagttgatg 360  
gagtcaagag atgaaagaat gaaagcgaca tctgagattt tgaggaacat gaggattctc 420  
aaactgcaag gatgggaaat gaagtttttg tctaagataa ctgaactcag aaagatcgaa 480

caaggctgtn taaaaaaagt tatatacact ntagtcttga tcatacttat attt 534

<210> 9699

<211> 591

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9699

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taatcccttc ttttatttca tctatttaat gtttcaagaa attctttcat accttcaaaa 120  
ttgacgtatt attttttttc taaatttacc ggtatcaata aggggaaata aaagtatttc 180  
aagaaaggac aactcagtta aataaactta ttgtttaatt aggacaattt aataaaaaat 240  
aataaattat ttttaattct taactaatgt tcaagggata caagattaca attaaaaaat 300  
ttatatTTTT ttaccgagaa aaaggcatta tatttattaa tccttctttc agttttatga 360  
attgcttaaa aaaattccat tcattaacta attcatccgt tgcttaatta taaattatnt 420  
atTTTTtaaa aattactttt ttagtaataa atgatagaag atatattatt ttaattatnt 480  
caataaaaca atatagttaa ataaacattt tttttactta taatcaaatt tatttaataa 540  
ttttaattag atcttataaa ataaaccttt aaaagaataa taaaattgca t 591

<210> 9700

<211> 542

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9700

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ttcgtgcca ttcactcttc aagaagcaaa ggaattcatt gatgaagaag atcttaggcc 120  
tacaaactct aatggagcta caccaatact aatgccacct ttctttcttt gatgtctccc 180  
catttagtgt tgccaaagtc ttgggtgctg cccgaggtgg atgtggtgga tctcttgtca 240  
gaagatgagg tagaggacct agaggaggac acttcgtatg aataagacct catcaciaag 300  
cccggcttat ggaggaagat tcttcaaagg attcatctga ggattctcgt tagaagggtc 360  
ttctccatcc aactntattg aattcttttt gtggatacaa ttgactttgg gcttgggtaa 420

ggatgactac tctaagtttt aggattttcc ctttatatgt attttgggac aagtagacct 480  
 atgctcagac cttttgtaat tattaatcat gactacttac attattgggtt tggggttggat 540  
 at 542

<210> 9701  
 <211> 668  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9701

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 cctccttttag aaatgaaatg aaaatgtctt aaatctcatt attgggttatg agaaattcta 120  
 tctgtatgct ttcattcctc cttcgtcgcga ttattttttg agaaaaaaaa atgtgtgttg 180  
 ttctgatcgt attggggggtt tgtttcttta ccaagcacgt tcgcatttta gtgaaagctt 240  
 taaggaaactt caatgtcttc tgtcttttac ttttcaagac ttcaatgtct gaattcttta 300  
 cattttcaag acttcaatgt cttcagtctt tacttttcaa gacttcaatg tcttcatgtc 360  
 ttcagtcttt acattttcaa gacttcaata tctttagtct ttacgtttca agacttcaat 420  
 gtcttcagtc ttttatgttc ctaaagactt aatgtctcct atttttgnta tgcaagccta 480  
 caacatcttt tgcttaatac ttttgatact tccgtattga tatecttttg ttctttttat 540  
 aagggttcaact tccttggtt tcgctaagtt ccaacccgat agcatgatcg cttgaatgaa 600  
 actagtggcc ttatctttac ttaccttttg attttcaata aaagataagt aaaaaagggg 660  
 cactatca 668

<210> 9702  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9702

aaaagnacta ccggtatcngt atgttattat gggtgattga gttcctacat ggagtcctaa 60  
 gaagcaaggc attgtgacac tttctacttg tgaagccgag tatgtagctg caacttcttg 120  
 cacatgtcat gccatttggc taataagatt gttggaggaa cttcagctgt tgcaaaagga 180



aagcacaag atctatgttg ataatatatc tacacaagag cttgccaaga atccggtggt 240  
ccatgaacga agtatgcata tagatacaag gtatctttcc attatagagt gccttaccaa 300  
gaaagaataa aaatcgactc atgtgaaaac ccaagatcaa gttgcggata ttttcaccaa 360  
gcctctcaaa attaagatct tttaaaattg ccagcaaaac ttggtgtgca gaaaaatttt 420  
ccaa 424

<210> 9703  
<211> 588  
<212> DNA  
<213> Glycine max

<400> 9703

tcaagctttt agtcttcaag aacataatat aaagaaagtt cgttttttct attgaggcag 60  
aaaggaagat actggatcat agagtgaatg aactgcagga tagacaagaa accgcagctg 120  
aattagagga gaaaatgaga tctcaaactg gtttactggc tgccaaagat caaggtgagc 180  
tttgtctgat tccttctctt ttgagaagtg atcttgtaat attttttatg gatgagaaac 240  
ttacatttct ggaacttaat ggtttattgc agaaatcgaa gcactaatgc atgcacttga 300  
tgaggaagaa acgcagatgg aagaattaac aaataagatt gtggatcttg aaacggtagt 360  
tcaacaaaag aatcaagaga ttgagaacct tggatctttc cgtggtaagg ttatgaaaaa 420  
gctttccata actgttagta agtttgatga gcttcaccac ctgtctgcaa gtctcctttc 480  
tgaggttgaa aagctccaat cccagttgct agaaagagat actgaaattt cttttttgag 540  
gcaagaagtt actagatgca cctatgatgc tcttcttgat cacaaatg 588

<210> 9704  
<211> 573  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9704

ttgagccaat tcagacaaca ataacttttt actcgttgtc ttatngagtc ccgtaatata 60  
tcgagacgct cgaaattgaa tggtgaacct ctgagcaaac tcaaacgaca ataacttttt 120  
actcggatgt ctgattgagt cccgtcatat atcgagacgc tcgaaattga atgttgaacc 180  
tcatagcgaa ttcaaaccac aataacttta tactcggatg tctgattgag tcccgtata 240

tatcgagacg ctogaagttg aatgtttaag ctttcagcca tttcaaacga taataacttt 300  
 ttactcggat atctgattga gtcccgtaat ataacgagac gctcgaaatt gaatgttgaa 360  
 gctctgaact agttcaagcg acaataactt tttactccga tgtctgattg agtcccggaa 420  
 tatatcgata cgctcgaaat tgaatgttga atctctgagc caattcaaac gacaataacc 480  
 ttttactcgg atgtctgatt gagtcccgaa aatatcgaaa ccctcgaaaa tgaatgttga 540  
 atctttgaac caattcaaac gaacccaaaac ttt 573

<210> 9705  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<400> 9705

gcttcacgtt cattttcagc gtctttatag tttcgggact caatcagaca tccgagaaaa 60  
 aagttattgt cgtttgaatt agctcagaag ttcaacattc aatttcgagc gtctcgatat 120  
 gttacgggac tcaatcagac atccgagtaa aaagtcattg tcgtttgaat tggctcagag 180  
 cttcaacatt caatttcgag cgtctcgata tattacgagc ctcaatcaaa catccgagta 240  
 aaaatttatg gtcgtttgta ttggctccga gcttcaacgt tcattttcga gcgtctcgat 300  
 atgttacggg actcaatcag acatccgaga aaaaagttat tgtcgtttga attggctcag 360  
 agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactcaatca gacctccgaa 420  
 taaaaaagta attgtcgttt gaattggctc agaacctcaa cattcaattt 470

<210> 9706  
 <211> 551  
 <212> DNA  
 <213> Glycine max

<400> 9706

tgtgggattt tgtgatagt attttgccgg agatgctatt atagaaaaag tactaccgga 60  
 tttgtatttt ttatgggtga ttgtgttttt acatggagtt ctaagaagca aggcattgtg 120  
 acactttcta cttgtgaagc cgagtatgta gctgcaactt cttgcacatg tcatgccatt 180  
 tggctaagaa gattgttggg ggaacttcag ttgttgcaaa aggaaagcac aaagatctat 240  
 gttgataata gatctacaca agagcttgcc aagaatccgg tgttccatga acgaagtaag 300

catatagata caaggtatta ttccattaga gagtgcatta caaagaaaga agtagaattg 360  
 actcatgtga aaactcaaga tcaagttgcg gatattttca ccaagcctct caaatTTGaa 420  
 gattttcgaa gattgcgagc aagacttggg gtgcagaaga attttccaat taagggagga 480  
 tgtagatat taattagacc aatattaata acaagtttta tgagccttaa attgtggaag 540  
 atgaaagttg t 551

<210> 9707  
 <211> 583  
 <212> DNA  
 <213> Glycine max

<400> 9707

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 ccctcattaa gaactagctc ttttcttctt ttattgcctt tagttgaata cacctttgtt 120  
 tgattctcta tttggttctt aaccactca tgcaacttct ttacaaacat tgacctagat 180  
 tcccccttctt tatgtataaa agaagtgtct agtgggaggg ggaatgaggt ctaacggttt 240  
 tagcggattg aaccataga caacctcaaa aggtgactgc ttggtggttt tatgaacccc 300  
 cctgttttag aaaaattcta catgaggaag atactcatcc caagacttat ggttgccatt 360  
 cagaagagcc cttaaaaggg tggataaaga cctattcact acctttgttt gccatcaat 420  
 ttgtggttaa gaagtggtag tgaaaagaaa gttagttcct agcttatccc ataaggtttt 480  
 ccaaaagtgg ctaaggaact tggcatctct atctgacaca atggtccaag gcaaaccatg 540  
 gagtctcaca acttccttaa aaaaaagttt gagatgtggg aag 583

<210> 9708  
 <211> 559  
 <212> DNA  
 <213> Glycine max

<400> 9708

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 acacacactt tttctagtc gatcactcac ttaattttcc attctcccct tttgtttttg 120  
 agtttatgtc tcaattgaaa ttaagttaat tacttatgtg agttcttgat ttaatccata 180  
 tttctctccc cctttggcat caataaaaaag ccaaagtga taacaagtat aaaacatata 240

tacactatta atcattcaca agacattcat tgaagaatat aaaaccaatc atgaagcaag 300  
aaacatgaat agatcaaata tataaaaaacc acatagtcac ataacataat tcatgatttt 360  
tcaaacatac catgcaaata aaagaaatac taaattgttc aaatgtcata ataatatagc 420  
aaaatacatg gctagaaaac aaagtgttag taatattaaa aatattagaa aaactaaaat 480  
gatggtggcg gtggtggtgg tagatcaaag cttgtacgaa tgtaagaaac atctttctca 540  
accttggtga ttcttgact 559

<210> 9709  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 9709

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gaatggagaa ggaggaaagg tgattataga tgtcacttca aggaaaaaat gagtcaaaat 120  
caagttcacc accataggaa gccatggata agagctagaa agtacggaaa gatgagtgga 180  
gggagaggga gaaagaagag ggtaccttag taatgtagga tttttcagcc cttgtatttt 240  
aggacactta tactagtctt tgtattaaga ataattttat aatttcacat gcattaaaatg 300  
tattatttga tgtgtgtatg ttggtagata aattcaattg aattagaaga agcacaatgc 360  
acatgatgta gtacatgtg agatgtgttg aaagtgaata caagatcata gagagaaggg 420  
gttgacatca tgga 434

<210> 9710  
<211> 546  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9710

agctttactt cattttctca agtagtgtat gatttgcttc cagattaaaa cacgttgctt 60  
aaaagttact atcaggccaa gaaaatacta tgtccgatgg gtatggagta tcaaaagatt 120  
catgcttgcc cgaatgattg catactatac aggcatgaat tcaaagaaat gtccaaatgc 180  
cctaggtgtg ggtcgtcacg gtacaaagta aaggatgatg aggactacag ttcggatgaa 240

aactcaaaga agggcccttc aatgaagggtg ttgtggtatc ttcccatcat tccaagggtt 300  
aagcgtcttt ttgctaattg agacgacgca aaagacctta cctggcatgc aaatgggaga 360  
aactctgatg gaatgggttg tcatccggct gactgctccc agnggaagaa gattgatcgt 420  
ttgtatccgg atttttagcaa agaggcaaga aatcttatgc ttggactatc cagtgatgga 480  
atgaatccat atgacaatnt aagcactcaa cacagttcat ggccagttat gctagtaatt 540  
tacaat 546

<210> 9711  
<211> 518  
<212> DNA  
<213> Glycine max  
<400> 9711

tgccctaatta acctgaaatt gagagaaaat gattacctaa cactcaaaat ggaagtacta 60  
agtattttatt acctatgctt agtagaaaat acttataaca ctacaaaata accataaatt 120  
ggaagagttt gatacaattt acacaagttt tatacacaaa agttagtcgt attcatcgac 180  
taacaccagt ccccatgaaa agttagcaat ttccagtgtt gaaaccaaac ataattttgc 240  
ctcatcatcc aacaccagta ccataaacat aaaatgcttc aaatgcttag gcagaggaca 300  
tattgctttt gattgtccaa cctggaggac cgtgatcatg aaggcagatg gagaaatcac 360  
cagtgaatct aaaatcaatg aagaagaagt ggaagaatag cttgaggagg aagctatgta 420  
gggtgatatg ctaatgggtga gaaggctctg gggaagtcag atgcagccac tggacaacac 480  
tcaaagagaa aatattttcc acaccagatg cacaatta 518

<210> 9712  
<211> 609  
<212> DNA  
<213> Glycine max  
<400> 9712

agcttatgga tggcgtgtct ggcttccttt tggatatttt cctgttctcc tattcaaggt 60  
acaaccaaatt caggaagcac cctctagatg aagagaaaac cgccttcata actgaagaca 120  
ccaatttttg ttacagggtc atgccctccg gactcaagaa tgcaagagcc acatacaaaa 180  
ggatcatgga cggggtcttt aaacaacaaa taggccaaaa tgtcaaattc tatgtggatg 240

acatggtcgt caagtctcat agtgtagccc aacacttaat agatttggag gaagtgtttg 300  
 gagagattca caagtataac atgtgcctca atcctgaaaa gtacacattt ggggttggaa 360  
 gtggaaaatt cttgggcttc atgatcaccc acaaggaat taaagccaac cttgacaagt 420  
 gtacgatgat actagaaatg cacaatccta ccaatgtcgg agaagtggag aaactaaaaa 480  
 gtagactgac gtctttgtcc acgtttctcc cgaagcttgc agaaaaggcg aggccattct 540  
 acaagttact caaaaatact gagctgtccc caaacaatg tgtccctggg cgaatctcaa 600  
 aggctcgtc 609

<210> 9713  
 <211> 526  
 <212> DNA  
 <213> Glycine max  
 <400> 9713

agcttcaaca ttcaatttcg agcggcttta tatatttttg tactcaatca gaaatccgag 60  
 taaaaagtta ttgtcgttgg aattggctca taggttcaac attcaatttc aagcgtctcg 120  
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180  
 agaggtttaa cattcaattt caagcgtctc gatatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcgtt tgagttggct cagaggttca acattcaatt tcgagcgtcc 300  
 cgatatatta cggcactgaa tcggacatcc gagtaaaaag ttattgtcgt ttgaattggc 360  
 ttagagcttc aacattcaat ttcgagcgtg tcgatatatt acgggactca atcggacatc 420  
 cgagtaaaaa gttattgtcg tttgaattgg ctgagagggt caacattcaa tttcgagcgt 480  
 ctcgatatat tacgggactc aatcagacat ccgagaaaaa agtatt 526

<210> 9714  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <400> 9714

ttgagaatat gggtgcagcc attggtcaat atggtgttca tttgccatt cctagctatc 60  
 atgacattag agttccactc ttgaagaagg aagttgaata tactgaaaat ttgatgaaag 120  
 gtcataggga gcaatgggtc aagtatggtt gtactattat gtctgatgca tggactgatc 180

ggaaacaaag atgcatcatt aatTTTTtga ttaactctca agctggttcc atgtTTTTga 240  
 agtctgttga tggatctgat tttgtaaaga aaggTgaaaa gctTTTTgag ttgcttgatg 300  
 ccattgtggt ggaagttgga gaagagaatg ttgttcaagt tgtaaccgat aatgggagca 360  
 actatgtttt atcacgtaag ttgttagagg agaaaaagaa acatatttat tggactcctt 420  
 gtgcagctca ttgtattgat ttgatgc 447

<210> 9715  
 <211> 602  
 <212> DNA  
 <213> Glycine max

<400> 9715

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 aatttctcaa gagctttcgt tgtacaatTT cgagcgtctc gatataTTaa ggcctaaat 120  
 cggacctccg tgtgataagt tatgaccatt tgaatttccc gagagctttc gttgttcaat 180  
 ttcgagcttc tcgatataat atgcgcctga atcggacttc cgtgcgaaaa gttatgacca 240  
 tgtgaatttg tcgagagcat tcgttgttca aattcgagcg tctcgatata ctatgcgcct 300  
 gaattggacc tccgtgtaac aagttatgac catttgagtt tctcgagagc atttgttgtt 360  
 cattttcaag cgtatcgata tactatgcgc cttaatcgga ctctatgtga caaggatga 420  
 ccatatgaat ttctcgagag cattcgttgt tcaattagga gcagttcgaa atattattgc 480  
 gctctaatcg gacttccgtg tgacaaggta tgaccatttg agttttctcg tgagcttccg 540  
 gtgttcaatt tcaagccttc tcgatatatt atgcgcggga acggatattc catttgaaat 600  
 tg 602

<210> 9716  
 <211> 571  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9716

agcgcgcctc caatattgag ctncgttttt attattttat cgggcttttc tccctcctga 60  
 aatcaatcca tcacatccaa attcagcaaa acaataataa agcaaaatcc aaaaacagta 120  
 gttcctatat ttccaaaga ctgacaaaca caaatacaca caaaatacta catattgaaa 180

cattcaactt gatataatattt ttccattttc accttgcccc aaagtccaga gtccttatca 240  
 taccaatacc tcccaggctt caacttctga ggagggatag ggcagcccag aatctcagcc 300  
 aactcctctt gtcttaactg cctgccattc acaacaagct gctccggccg aagctgattc 360  
 gcaggacact ccttttcagc cctcattatc tgattaatct ccaaagaact acacactttc 420  
 gacaacattc tggaacactt tcccaaagtc gacctcttcg actcatcaat tggcttccca 480  
 atgcaactca cgcatttcct tccctcaggc atagacccca tcgctttcag cacacaggta 540  
 ctgcaatacc ttgaataaca caccaaacac g 571

<210> 9717  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 9717  
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 tggcatcatt tctggcgcta aactgttggg agttggaagc catcttctca attaaatttc 120  
 tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt gctgagtcct tcataaaaat attggagaag aagctgctct gaaatctgat 240  
 ggtgggggca actggcacat agtttcttaa atctctccta gtactcatac aggctctctc 300  
 cactaagttg tctaatacct gagatattcct tcttgatggc tgtggctcctg gaagcaggga 360  
 aaattgtttc taagaatact ctcttaaggt catccagct cgtgatggac ctttgagcaa 420  
 ggtaatacaa ccagtccttt tgccactcct ctaatgaatg 460

<210> 9718  
 <211> 580  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9718

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 gcagaacaat tatgacctct ccagcaacag atacaaccct ggatggagga atcacctaa 120  
 ccacagatgg tccggccctc agcaacaaca acagcagcct gctccttctc tccaaaatgt 180



tggttgccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
 atagccaaca gttgaggccc ctccacaacc ttccctcgaa gagcttgtga ggcaaattgac 300  
 tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360  
 gatggggcaa ttggctaccc aattgaataa acaacagtcc cagaattctg acaagctgcc 420  
 ttctcaagct gtccaaaatc caaaaaatgt cagtgccatt tcattgaggt cgagaaagca 480  
 gtgtcaagga cctcaaccg tagcaccttc ctcatctgca aatgaacctg ccaaacttca 540  
 ctctactcca gagaaagggt atgacaaana tttacctaac 580

<210> 9719  
 <211> 536  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9719

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 ggcaaccaga aaagatcatt ttcccctgcc attcattaat caaatgcttg agcacttagc 120  
 aggtaagtct cactactatt ttcttgatgg tttttctggt tatttacaaa ttcattattgc 180  
 tcccgaggat gaagaaaaga ccacattcac ctgtcccttt ggcacttttg cctataggag 240  
 gatgcccttt ggccatgca acgcccctgg taccttcag cgggtgatgc ttagcatttt 300  
 cagtgatctt ttagagagtt gcatagaggt gtttatggat gattttactg tttatggatc 360  
 ctcttttgat acatgtttgg atagtctgga tagagttctt agtagatgca ttgaaactaa 420  
 ccttggtgctg aattttgaaa aatgtcactt catggaagaa caaggtatag ttttagggaa 480  
 tatcatttcc agtangggca tagaggtaga ccctgcaaag atagctgtta tttcac 536

<210> 9720  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 9720

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 tcggttccaa acatgatgtc tcaagaagca atacctgctc cttccaacaa taacaacctc 120  
 agagactcca cggttcaact tcatgaacca aactcaaacc ctaatcctaa ccctaattcg 180

gttaagagaa aaagaagcct acccggaaca ccaggcaagt tattatttaa ttaaatacctt 240  
 ctcttctgca tactatatat gtacttactg ttctgattct taattcagaa aaaatatatt 300  
 tgtaattaat tacgggttaa ttatgtggtt gtggttgcac ggaccaagca gatccgaatg 360  
 cagaagtgat tgctctgtcg ccaaagtcgc tgatggctac caaccgattc atctgcgaag 420  
 tatgcaac 428

<210> 9721  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9721

taggtttcct tctagaatct tctaaactgc gtcccctgnt gcctttgatc tcttgagaaa 60  
 aatgatttgt aggtactctt ctagaagggt ctctacagaa caagccttga gtaagttact 120  
 acttggttca gttttttttt tttggggggg ggggggggtn tntggntatt tacanattct 180  
 tattgctccc tatgatgaag aaaataccac attcacctgt ccctttggca cttttgccta 240  
 taggaggatg ccctttggcc tatgcaacgc ccctgggtacc ttccacctgt gtatgcttat 300  
 ctttttcaat gatttttttag agagttgcat atagggtgtt atggatgatt ttactgttaa 360  
 ggatcctctt ttaatcatgt ttggatagtc tggataagtt ctttttaata gcattgaaca 420  
 aacctttggc tgaaatttta aaaatg 446

<210> 9722  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<400> 9722

agcttataat atatcgatag gtcggttatt aaacattgta aactctcgcg aaattcaaatt 60  
 gggcataaat ttacacacgg atgtccgatt cgggcgcata atatgtcaag aggctcgaaa 120  
 ttgaacaacg gaagctcttg agaaattcaa atgggtataa aatttcacac ggatgtccga 180  
 ttcaggcaaa tcacatatcg agacgatcag aattgaacaa cggaagctct tgagaaattc 240  
 aaatggatcat aacatttatc tcgaatgtcc aatttaggcg catcacatat agtgatattc 300

gaaattgaac aacagaagct ctctgtaa<sup>1</sup> tcaaattggct ataacttttc aactgaggt 360  
 ccgattcacg gttataatat atcgatacgc tcgaaattaa acatcgga<sup>2</sup> ctctcgagaa 420  
 attcaaaaga tcatgacttt tcacacggat gtccgattct ggcgcataat atgtcgagag 480  
 gctcggaatt gaacaacgga agctcttgag 510

<210> 9723  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 9723

agctttgagc aaattctttc gacaatttcg ttttactcgg atgtccgatt ggtcccgt<sup>3</sup>a 60  
 atatatcgag acgctcgtaa ttgaaaacag aagctctgag caaattcaaa cgacaataac 120  
 gttttactcg gatgtccgat tgagtc<sup>4</sup>ccgc aatctatcga gacgctcgta attgaaaaca 180  
 gaagctctga gcaaattgaa acgacattaa ctttttactc ggatgtccga gtgagtc<sup>5</sup>ccg 240  
 caagaaaccg acacgctcgc agttgaaagg ggaagctctc ataaacatcc ctcgactata 300  
 acttt 305

<210> 9724  
 <211> 583  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9724

tggagtgaca tgaaagttga ttacaatgaa ctaaagtatt tggcttgctt atgtcatct 60  
 aaagcaggat aagttggaac caagggcctt gaagtgtatc ttcataggct atccacaggg 120  
 agtgaagaga taaaaactgc ggtgtttgga acctagacac aagaagtgca tcatcagaag 180  
 agttgtaatg tttaatgaac ttcaaatgga aaattttaatc ctgccattca agtctgctgg 240  
 aagttagagt tcacaagttc aggtgaagtc tgaagagatt gtaa<sup>6</sup>acgctc aataatagta 300  
 atggcaagag acaagtttgt tcctgcatct agacaagcaa atgaagaagc atctcaagat 360  
 tattgttttag ctagagatag ggaaataagg acaatcaa<sup>7</sup>ac ctctgaaag atatggtc<sup>8</sup>at 420  
 gcagatctga tctcctatgc tntaatagtt ggaaaggaga atgaagatca ggaggaacct 480  
 cagtcctatg atgaggccat aaagcagcag gacaactcan aatggattga agctatggaa 540

gaagaaatga cttctctaga aaagaatcan acttggatac atg

583

<210> 9725

<211> 544

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9725

tatccatgaa caccgatata taatcacggt tttgattcta caaagataac aaaacagtca 60

tagatatatt tatctattga acagaactgt caaaaataact agtcactata taatgatctg 120

aactacatct cacctgaaag tcaatgaagt aagcatgctg tataaaaagt aaacataatt 180

acaaagtcag cgaatttatt atcaatgaaa tgaaataata gttttaacag tctcaaattcc 240

actataacac aaagtaaact tgattagtag ctcccagaca tcaatggtaa ggagtggctg 300

caagagataa aaatgaaatc tcgtcagaca ttttaacat gatgcttcag ccttatccta 360

gcattcatgt ttcaaaacat aaaatgaatt atggatatta tgtaatcctt actacttaca 420

taatagtagt ttcaaacaaa ggggttcaca gcattgggag tcttcaccac aactagcttc 480

ttgtcctcac cagattgaag aggattcaga acatntccca cgtcaagtct gctttcttta 540

tcta 544

<210> 9726

<211> 571

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9726

agcttggaga ggatgcttca atggagtttt aagatttatt gagagaaaga gagagggggg 60

agcacgaaat tgaaggaaga aaaagagagc gaagttgaac tttgagttat gtctcacaag 120

actctctttc atcaaagtta caacaagggt tccacatgct tctatttata gactaggtag 180

cttccttgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttcct 240

tcagaagcta gagcttagct acacataccc ctctcataac taagctcacc tccttgagaa 300

gcttccttaa gaagattcct aaagaagcta gagcttagct acacacacct ctctaatagc 360

taagttcacc tccttgagat gagaagctag agcttagcta cataccccct ataatagcta 420

aactcacccc tatgccaaaa aacatgaaaa tataaaaaaa gtcctacta caaagactac 480  
 ttccaatgaa ggtaagtaaa ttgcanatta caaaattaca aaatggctct caattntggg 540  
 ggggtttctc tctttgggtga ttcaactcaat t 571

<210> 9727  
 <211> 500  
 <212> DNA  
 <213> Glycine max  
 <400> 9727

tgacgacgat gatgagggat atgcaaattc tgttctgtga cagaagtgga aagtaagcat 60  
 gaggcatacg ctggaccaac caaacgcggg cttccggatg gtgggatatt gatgagtgga 120  
 tgtcacactg accaaacttg tgcttatgca agtactgcgg gcaacgctgc cagagcttat 180  
 ggggctttta gcaatgctat acaggctata attgaggaga ctgatgggtgc aatcacaaac 240  
 caagaacttg ttcaaagggc aagagagaag ctgaagaact ccggtttcac acaaaaacct 300  
 ggactctatt gcagtgatca ccatgttgat gctccttttg tgtgttgatc tcttctcatc 360  
 tgatgactga tgcataaaaa gagagaataa tgtgtgttgt ttatagaatg ctggtgtata 420  
 gatgtatatg tttggacaat catattgaag ttatgtgtgt gatcatacag gttttctatg 480  
 catcactatt atcagggtacg 500

<210> 9728  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9728

agcttccatc actcatgttt gtcatgtttg aatgcaaaaa ctatttactg tagcaattcg 60  
 tggatatctt cctgacaaaag ttaggggtgc cataactcgt ctatgctttc tttttaatgc 120  
 tatctatagc aaagtcattg accctagaaa attggatgaa ttggagaatg tggcttccat 180  
 tgccttttat caaatggaga tgtattttcc tccatcattt tttgacataa tggttcactt 240  
 aattgttcat ctggcgaggg agatccggtt gtgtggctct tttttttacg gtggatgtat 300  
 ctagttgagc gatatatataa gttgttaaag gggtatacca agaatacaata ccgaccagaa 360

attttgattg ttgaaaggta tgttgctgaa gaatgtatca agttttgctc ccaggacatt 420  
gaaattggta aatctgtcgt ccttcctgaa actcatcatg gccggacacg gngggggggg 480  
gggg 484

<210> 9729  
<211> 373  
<212> DNA  
<213> Glycine max  
<400> 9729

agcttattct ccttcatttg cacaagggtc ttaatatttg aagagtatcc ttgtggaacc 60  
ttcacccaac aaagacactg acaaaaactt atcttctcct tcttggacaa agtatggtag 120  
gctgggggca agtaaatattt cttcccatca gaccttggat gcaactgtga tcttatatcc 180  
atatcagcta gatcttgacg ggtattcaag ccctccttcg tcttgccttg aatgttaagg 240  
agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
ctaacgtcaa gatcactcca gtacggaaga tcaaagaaaa tggacctctt tttccatattg 360  
caactctgac ttt 373

<210> 9730  
<211> 569  
<212> DNA  
<213> Glycine max  
<400> 9730

tctagtcaaa tggacttacc ttgaattaat tcctttgtta gcccttttga gcctatgctc 60  
ccctttcttt gttttgaagc tcattacaag ccttaagtga aaaaccatga tatcacctta 120  
cccttaagga attttggagc tttggaattg ttttgggaat aagtgtgtgt gtgtgggggg 180  
gggagggcat gcataccata cattcctcca ccaatccaac aacagcaaca accccagaaa 240  
caaccaacag ttgaggcccc tccacaacct tccctcgaag aacttgtgag gcaaatgact 300  
atgcagaaca tgcagtttca gcaatagact agagcctcca ttcaaagctt aaccaatcag 360  
atgggacaat tggetaccca attgaatcaa caacaatccc agaattctga caagctacct 420  
tttcaagctg tccaaaatcc ctaaaatgtc agtgccattt attgaggtcg gaaagcaatt 480  
gtaaaagacc tcaaccogtt cacctttctc atttctaattg aacctgccaa acttactcta 540

tttcagaaaa tgggatgaca aaatttacc

569

<210> 9731  
<211> 519  
<212> DNA  
<213> Glycine max

<400> 9731

ctaagcttca catatatccc gcaaatatc ccaagtagca cccttagcct ctattgcttc 60  
ccattgaatc aacaattgag acatggtagc ttctaaatgt ttgacaactc gaacattcaa 120  
caccttccat gggcaaagtg ttggtcccag ttactagaa gtgagtggaa aaggaagata 180  
tggtggagga cttttgccat gaaatgggtt cagaagagca atatgaaata caagatgtat 240  
tttagcagac tggggtagtt gtactttata tgcaacagta ccaattcttt caatcactgg 300  
aaatagacca aaatagtgc tgcctagctt ccgatgcttc ctcaaagcca ctgaatgttg 360  
cctataaggt tgtagcttaa ctaaaaccaa atcaccaacc ttaaattgca aatctcttct 420  
tttcttatca tcttgcctct tcatatatgt ttgagccctt agtaaattac ccttaagctt 480  
gctcaaagtt gatcaacata gtgtaaaaat tcttgagtg 519

<210> 9732  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 9732

agcttctata agaagattcc taaagattct agagcttagc tacatttacc tctctaatag 60  
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccctc tataatagct 120  
aagctcacc ccatgacaaa aaaaaatatg aaaatacaaa aaaaaagtcc ttactacaaa 180  
gactactcaa aatgccccga aatacaaggc taaaacccta tactattaga atggccaaaa 240  
tacaaggccc aaacaaagaa aaaacctatt ctaatattha caaagataag cgggtcatgc 300  
ttagctcatg ggctcggaat ctaccctaag gctcatgaga accttagggc cttcccttgg 360  
atctctagcc caatctactt ggagtcttct acccaatgcc ctgcggggat aggattgcat 420  
cattcc 426

<210> 9733

<211> 594  
 <212> DNA  
 <213> Glycine max  
 <400> 9733

cactactcaa gcttcatgat gatgaatcaa gctgattcag gaaggggtggt tgacatcttg 60  
 agatgatgac aaaaagccca atagagtgat ttcaagattg agtcaacaat tcaagaatca 120  
 agagtcaaca cttcaagaat caagaaaaga taaattcaag tttcaagaga agaaatcaat 180  
 aagacttcac aaggggaagta ttgaaaagtt ttttcaaaaa acaaacatag tacagttttg 240  
 ttttcaaaaa gaaggagaat caggattagc taagttacca gagctgttac tctctggcaa 300  
 tagattacca gtttcttgta attgagtacc agtggcaaag attgttttca aaagctttca 360  
 actaaattta caacgttcca attaatattca aaatgggtgta attgattaca agatattggt 420  
 aatcgattac cagtgtggtt gaacattgaa attcaaattc aattgtgaag agtcacatct 480  
 ttgcacaaaa atgcttttggt tgatcgatga ccaagatttg ataatagcat tccaatgaca 540  
 agttttgaac aaaaatcaaa agatggaact ctttcaatgg ttttaaattt tttt 594

<210> 9734  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
 <400> 9734

tatgctgcaa atatttataa tagacctcct ctaccttate tagcaaaatc aaccacagca 60  
 gaacaattat gacctctcca gcaacagata taaccttgga tggaggaatc accctaacct 120  
 cagatggtcc agccctcagc aacaacaaca gcagcctgct ccttccttcc aaaatgctgc 180  
 tggccaagc agaccatata ttctccacc aatccaacaa cagcaacaac ccagaaaca 240  
 accaacagtt gaggccctc cacaaccttc cctcgaagaa cttgtgagge aaatgactat 300  
 gcagaacatg cagtttcagc aatagactag agcctccatt caaagcttaa ccaatcagat 360  
 gggacaattg gctacccaat tgaatcaaca acaatcccag aattctgaca agctaccttc 420  
 tcaagctgtc caaaaatcca aaaatgtcag tgccatttca 460

<210> 9735  
 <211> 605  
 <212> DNA



<213> Glycine max

<400> 9735

agcttgcaag tgaaatctaa ttactctact taagtacgca acacaaagaa tagtttacac 60  
tagaataaaa aggtatgggc aaaagagtat tctatataaa atatatctcg atacgagtcc 120  
tcgaactata gagtatcaac attgctaaga acaagaaatc acgaacaacc atactatcta 180  
tgcaattaag gcaaaacacc atactactaa cataccaga attataaggt tcttataata 240  
agtatacaac gtacatataa gaagtaagaa tttaatagtt aataaggatg tattaaagaa 300  
tcacaaactt caactactac attcacgact acacacaaaa taaagtgagt taagtagtca 360  
tgcgtttaca catcaagaaa ggcatactca tccaagacat atatatgggt caaaagggtt 420  
tcacaacact aatccacaca tcaagataga aataagttta ttaacaacat acaagcaaga 480  
agataagggc ctcattaagc attatccatc agtatcaaag cttcttgcat cacctaacgy 540  
cttaccataa tgtcgaaccc gacttcacaa attatagaga tgggcagctc cataactcat 600  
gactc 605

<210> 9736

<211> 604

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9736

agcttttagtc aaacagaata atccgtttat gtcatagaat tgggtgttga aagagcataa 60  
caagactttc tgtgattggc ttaaagatac aatctttgta gatgagaatg ctttagaaac 120  
attaagaaag ctagcagatg ggcctaaaag aaatgttata acctggcaag gatacgacat 180  
aaacaagtat tcattttaca caaaagcaca agatgacaaa agtacaatgc agaacagcgg 240  
ggtcacccta agggctgaat ctcaacactt tgcaagtgtc aatgacgcca atccctgtgt 300  
agctttcatc cttactttg gggtcattga tgaaatttgg gagcttaatt atttgaaatt 360  
tacagtatgt gttttcaa atgaaatgggt tgacagcaac accggtgtgc gcaccgatga 420  
tataggattt acgctggtag atctaaagaa acttggttac cacaatgacc ctttcatcat 480  
ggcagaacaa gctagacaag tattttacgt gcaagaccct tgtgatgaaa ggtgggtgtgt 540  
ggttctgcan ggcaaaatag ttggtgttaa tgtagaagat gaatattcat acatggacac 600

ctat

604

<210> 9737  
<211> 376  
<212> DNA  
<213> Glycine max  
  
<400> 9737

actccagctg cacagcagat ttctggtatg acccactttc ccactcatta aaaaccacca 60  
cgccataaac ctagggaact atacaaaaac agatcggccc ctggatggag gaatcgcggt 120  
aacctaaaat ggccacacac atcaaaccag ccacacacca tttggtcttc cataacgaag 180  
gcgcttaggc cgccataacc gcccttatct ccaccagatc tacacctaac tcaagcccat 240  
atacaagacc aaccgaagc ccactcacgc catccacctt aacaacgagg gggccaatga 300  
ctatacaaac catgcacttt cagcaagaga ctaaaggctg ccatccaagc ctaaccatc 360  
agaggcgaca ttcggc 376

<210> 9738  
<211> 644  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9738

taaaaattta agaaaaaac attgtacata aaattctctc atttttcaaa taataataat 60  
actaatatag acatattata aattatTTTT taatttctat tctaaaatat taatttaaaa 120  
tattataata aataaagcgt tagtatttaa tattattatt attgaaatta atttttgatt 180  
tagtatttga gatttgaata aatatgaaca aaaaagttac taaatagcat ccttcattat 240  
tggttttttt taaaaaaatt taatgattcc caaagagtt aaataatcaa attatcaatt 300  
gttaacaatt ttggttaaaa caaccatag tgaacagac aaaatattaa taagaaataa 360  
acttattgaa tttgaaggtc ttaaaaggaa aaaatgcaca tccgtcataa atttaagaca 420  
aagaactttt anaattcttt aattaacatt ttaaccattt atatttgaac aactgtttca 480  
aaaaaaaaat tcttacagaa tcatttatac tatttaaccg tgctggaaaa aaaaaacca 540  
caactcttga attttatttt aatgcacatt tcttatttat aaagaataga aaggggttgg 600

tgcattttct taattccttg ccgatgggtt aaaaaagaaa agaa

644

<210> 9739  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 9739

agctttttta tttgcttgat gccatttttg atgaagttgg agaaaagaat gttgttcaag 60  
ttgtaaccga taatgggagc aactatgttt tagcgggtaa gttgttggag gagaaaagga 120  
aacatattta ttggactcct tgtgcagctc attgtattga tttgatgctt gaagatattg 180  
ggaagcttcc cttgataagg aagaccatta gaagggcaat taatctactt gggttaatgt 240  
atgcccattc tagtacctta agtttgttga gagattttac aaacaagaag gaattggtga 300  
gacatgctat tactagattt gccacttttt atc 333

<210> 9740  
<211> 596  
<212> DNA  
<213> Glycine max

<400> 9740

gagattacct gcaggcacgc aagcttctta tccaaggctc atcttggttg tgaagcttct 60  
tcttcogtgg cttattcctt aatggatggc gcctcctctc acctcctttc ctttgtcttc 120  
cgctgcatct ccattggtgga aaatcaccat taaaggaccc cattgaagct caaagatcca 180  
gcctccatag aagccccaca agcaagcttc catcacttag gctataaata gaggccatgt 240  
gtatgcattt tttcaacttt gatcatttga gaattacact tcaaagttca tacctctttt 300  
gaggcacaaa attttgagcc ctttctctgc ctctgcctac actcatcttc tcctaccttc 360  
aagctcttat ccaaggcttc ctatgggtgg gagctgcttc ttgactcatc atttccttga 420  
agaggcatct ccaatcatca ttcttccttc tttattctgc tgtcattaaa cttcatgcag 480  
caaaggactc cattgatgaa gaagatccaa ggctacaaa ctgcaatgga gctacatcat 540  
gtggtatcaa gagcatcttc atctaggtga agtgcttttg cttcctttat cttttt 596

<210> 9741  
<211> 572  
<212> DNA

<213> Glycine max

<400> 9741

agcttgagct tagctattca tacctctcta atagctaagc tcacctcctt gagatgagaa 60  
gctagagctt agctacacac cccctataat agctaagctc acccccatga caaaaaacat 120  
gaaaatacaa aaaaaagtcc ttactacaaa gactactcaa aatgccccga aatacaaggc 180  
taaaacccta tactactaga atggccaaaa tacaaggccc agacgaagga aatacctatt 240  
ctaataattta caaagataag tgggctcata cttagcccat gggcttgaaa tctaccctaa 300  
ggctcatgag aaccctaggg tcttcccttg gatctctagc caatctactt ggagtcttct 360  
acccaatgcc cttgcggggg aggattgcat cagaaaggct acccttcaaa gacggtcctc 420  
caaccgatgt cgggtattcaa cgacactgtg ttaccaccac acgtcataac cgatgtagaa 480  
atgtcattag agccgatgta gaaggccttt ttttttaata ttgaacttaa gttccatcat 540  
catgttattg ttgcgagcag aacatatata ta 572

<210> 9742

<211> 514

<212> DNA

<213> Glycine max

<400> 9742

agcttctggg gggacatttt gacttgtttt ccaatctgac attcaccaca gattctgcct 60  
tcttctattt tcagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcata ttttttgag 180  
gatagacatg tggaggagta gcttgtttct tgagggtgcc ataggtaaca gttgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
gtgaagttta cattgaatcc ttcatcacac agctgactga tgctgatcaa gtttgcagtc 360  
agtcccttca ccagcagtac tttgtccaga ctaagaagtc catcatgaac tagccttccc 420  
attccaatga tctttccttt agagccatct tcaaagtca catagctagt ggagcagggc 480  
tcaatgttca ccaagaattc ttttaacttct gtca 514

<210> 9743

<211> 424

<212> DNA

<213> Glycine max

<400> 9743

tgtagggtta aagtctcacg ataggcactt gctttttctc aattgtgagc cgtgggtata 60  
cgagacatct tgccaaacaa agtcagggtta gccataactc gccagtgett tttcttccat 120  
gctatatgta gcaaagtcac tgatcctgtc aagtttgatg atctggaaaa tgaggctgca 180  
attatatgtt gccagttgga gatgtatttt cccctgcat tctttgacat catgattcac 240  
ttgattgtgc atctggtcag agaaatcaaa tgttgtgcgc ctgtttatct acggaggatg 300  
taccagttg agcgatacat gaagatctta aaagggtata cgaagaatct atatcatcca 360  
gaagcatcta ttgttgagag ggacattgca gaataagcca ttgaattttg ttcagaatac 420  
attg 424

<210> 9744

<211> 375

<212> DNA

<213> Glycine max

<400> 9744

aatctatagc aatgtgcttt tctcttatga atataccag caatagcaac aacctccatt 60  
ctatccaata ggggattatg tatcatttca acaacatttg tagtgcaaac aaaaagaact 120  
tgcaacgcat aactgcttaa gtaattatgg taaaaacaag cctactttgc ctacaggga 180  
ttgaatgaaa gcaatacatt caagaactat ttgaccatcc taagaactac ctatcagcaa 240  
taaacacaat taataaacca tgtacaaatg ctaactatat cacaatctca ctacaaaggc 300  
tctagattat aaattaatac ctttgataga tcaatggtaa catcaagata gtggtcaaga 360  
aaattagcat tctgc 375

<210> 9745

<211> 435

<212> DNA

<213> Glycine max

<400> 9745

tgcaagcttc tagcgtacc gctattggtg tctataaaat tcaaaaacaa atccctctta 60  
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cccgatatttg ttttttgcaa aaaagaaaat taatctgaaa caattcacgc tgaatcgtaa 180  
 tcgctattat tactcgaacc atagggaata acagctcaac aagtaattta aaatgtaact 240  
 tttaaattat gtgggatttt ttttaattaca attttacttc aatatctaata tttgttaact 300  
 tacttaggtc gcttttttaa tataaatatg aatgtaaagg tgatctactg ataataataa 360  
 gtacttgcta atcacaaatt atgataccta tcattctaca atttaactga attgtataaa 420  
 tattaataaa tttat 435

<210> 9746  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9746

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 aatttctcgg gagctctggc tgttcaattt cgagcgtctc gatataattat gccctgaat 120  
 cggactttcg tgtgacaagt tatgaccatt tgaattccac gagagcattc gctgttcaat 180  
 ttcgagcatc tcgatataatt atgcgcctga atcggacttc cgtgtgacaa gctatgacca 240  
 tttgaatttc tcgagagctt ccggttttca attcagagca tctcgatacg tgatgcgcta 300  
 gaatcggact tccttgtgaa aagctatgac cattggaatt tgtcgagagc tttcgatggt 360  
 caatttctac cgcttgata tattatgcac cttaatcgga catccgtgtg acagtcatga 420  
 cca 423

<210> 9747  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9747

agcttgtaag tgtaatatgg gtcctatttc tcgattttta ttngcaagac acgggctccg 60  
 aatgatttat attgtcgctt gattgcagct gcagatattt taccattttt tatatagaaa 120  
 atattcaaca tacatttggtg aggaaaaaga tatgcactct actcacacca gaaaactaat 180  
 cttactttta attttctaca gtatatatac taattaacat ttttaattta tgaatctcta 240

tatttacttt ctcttctatc gtactttaat cttatttctt tcttctatat ttctttccat 300  
ctcattacat aatacatcta tcattatctt ttctattatt tccgacagag tcagatctta 360  
tggtgtctgt cgatggctgg ttctattta c 391

<210> 9748  
<211> 367  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9748

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tccaggcata nttgtgcaaa atctcttgaa cttaggaagat gttgtccatc atctttctgt 120  
ttttaatgaa ggcagtttga gtttcccaa taatagtctc aagcactggg gctatgcggg 180  
tggctagaat tttagacaca atcttgtata acaaattata gcaagatatg ggtctaaaat 240  
ggttaacctg ggaggcctga tcatgcttag gaataagcac aataatagca tggttgattt 300  
gctttaaaaa ttttccagtt gtaaagaatt cattaaccgc cgcaaagata tcatcaccaa 360  
tgatatt 367

<210> 9749  
<211> 390  
<212> DNA  
<213> Glycine max  
<400> 9749

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aagctctcga gaaattgaaa tggtcataac ttttactca gatgtccgat tcaggcgcata 120  
catatatcga gacgctcgaa attgaacaat ggaagctccc aagaaattca aatggtcata 180  
agttatcaca cgaagggtgcg ttttaggagc atcacatctc gagacgctcg atattgaaca 240  
acggaagctc tcgagaaatt gaaatgggtca taacctttca ctcgatgtc tgattcaggc 300  
gcatcatata tcgagacggg caagattgaa caacggaagc tctcgagaaa tagaaatggg 360  
cataacttat cactcaaagc tctgattcac 390

<210> 9750  
<211> 338

<212> DNA  
 <213> Glycine max  
 <400> 9750

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 gtgataattt atgaccattt gaatttctcg agagctccca ttgttcaatt tcgagcgtct 120  
 cgatatatga tgcgcctgaa tcggacctcc gtgtgataat ttatgaccat ttgtatttct 180  
 cgagagattt cgttgtttta tttcgagcgt ctccatatat aatgtgcttg aataggacct 240  
 tcgtgtgaaa agttataact atttgaattt ctcgagatct tccctgggta aatttcgggc 300  
 gttttcatat gtgatgtgct tgaatcggac tctctgtg 338

<210> 9751  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <400> 9751

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 ttcacccgat gaagacactg acaaaaactt atcttctcct ttttggaaaa agtatggcaa 120  
 gctgggggca agtaaat tttcccatca gaccttggat gcaactatga tcgtatcccc 180  
 atatcagcta gattttgacg ggtattcaag ccatacctcg tcttgccatg aatgttaagg 240  
 agcatcccaa tcacactgtc acaaacattt ttctccaaat gcataacatc aatacaatgt 300  
 ctaacgtcta gatcagacca gtacggaaga taaaagaaaa tggacctctt cttccatatg 360  
 caactcttac ttttatacct tttttgggt 389

<210> 9752  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <400> 9752

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 tgccatgcac taagcgtgcc ctgtcacgtt aagcgcaatt tactctttgt ttctatagtt 120  
 gttggaattg ggcttagcga gccttctcgc taaaccattt gatgcaatcc taccocgcaa 180  
 gggcattgga tagaagactc caagtagatt gggccagaga tccaagggaa ggccctaggg 240



ttctcatgag ccttagggta gattttaagc ccatgggcta agtatgagcc cacttatctt 300  
 tgtaaataatt agaataagggtt tttccttcgt ttgggcctta tattttggcc attctagtag 360  
 tatagggttt tagccttgta tttcggagca ttttgagtag tctttgtagt aaggactt 418

<210> 9753  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9753

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 taaaaagtta ttgttgtttg aatntgttca gagcttcaac attcaatttc gagcttttcg 120  
 atatattacg ggacacaatc agacatccga gtaaaaagtt attctcgttt gaatttgctc 180  
 agggcttcgg taatccattt cgagcgtctc gatatattac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcggt tgaatttgct cagagcttct acattcacat tcgagctttt 300  
 cgatatatta cggactcaat cagaca 326

<210> 9754  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9754

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 gggcctatgc aagttgaaag ccttgaggga aagaggtatg cctatgttgt tgtggatgat 120  
 ttctccagat ttacctgggt aaactttatc agagagaaat cagaaacctt tgaagtattc 180  
 aaagagttga gtctaagact tcaaagagag aaagactgtg tcatcaagag aatcaggagt 240  
 gaccatggca gagaatttga aaacagcagg ttcactgaat tctgcacatc tgaaggcatc 300  
 actcatgagt tctctgcagc cattacacca caacagaatg ggatagttga gaggaaaaac 360  
 aggaccttgc aagaggctgc tcgggtcatg cttcatg 397

<210> 9755  
 <211> 381

<212> DNA  
<213> Glycine max

<400> 9755

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aaaaagttat tttcgtttta attggctcag aggttcaaca ttcaatttcg agcgtctcgc 120  
tatattacgg gactcaatct aacatccgag taaaaagtta ttgtcgtttg aattggctca 180  
gggcttcaac attcaatttt gagcgtctcg atatatgacg agactcaatc agacatccgc 240  
gtaaaaagtt attgtcgttt gaattgtctc agagggttaa cattcaattt cgagcgtctc 300  
gatatgttac gggactcaat cagacatccg agtaaaaagc tattgtcgtt tgaattggct 360  
cagagattca acattcaatt t 381

<210> 9756

<211> 272

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9756

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aatttctcgg gagctntggg tgttcaattc cgagcgtctc gatatattat gccctgaat 120  
cggactttcg tgtgacaagt gatgaccatt tgaatttcac gagagcattc gttgttcaat 180  
tccgagcatc tcgatatatt atgcgcctga atcggacttc cgtgtgacaa gttatgacca 240  
ttcgaatttc tccagagett ccggctttaa at 272

<210> 9757

<211> 412

<212> DNA

<213> Glycine max

<400> 9757

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ataaatagta ataaataaaa gaagttaag ggaagagaga aatgcaaact tgatttatac 120  
tggttcggcc acttcccggt cctacgtaca gtcctaaagc aaccacttg agattttcca 180  
ctctcttgta aaatcctttt acaagttctg aacacacaag gacaatcctt cctttgtatg 240

cagaattcct ttacaacaag agaccatcgg actattaatc ccttttcaga agtgagaaga 300  
agagaagaag aaatctctct tgaaagagat agattgtaca atgaagatca atcacaattc 360  
cttattgcat atgcaagtgt ttgaccaacg aatcttcaag aggataagac at 412

<210> 9758  
<211> 385  
<212> DNA  
<213> Glycine max  
<400> 9758

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aactttccag gttctgctat ccagtgattt gaggaaggcc accatccttg ctttccagta 180  
ttcatagttg gttccatcca gaattggtgg tctgttctact ggtcctcctt ctttctccat 240  
gttcatcaga atttatctcc ctagatctca ctcaagtatt tagagtgcc gctctgatac 300  
caattgaaat tctgatacca atgccagatg tcgtacagga tgtcacgaca tcacgcttca 360  
gaacatgcag attatatattg agtgt 385

<210> 9759  
<211> 421  
<212> DNA  
<213> Glycine max  
<400> 9759

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ttgttcaatt tcgatcctct cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120  
tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt atcgatatat 180  
tataaccctg aatcggacct cagtgtgaaa agttatgacc atttgaattt gacgagagct 240  
tccgttggtc aatttcgaat atcactgtat gtgatgcgcc taaatcggac attcgagtta 300  
aatgttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360  
atgtgatttg cctgaatcgg acatccgtgt gaaaagttat gaccatttga atctctcaag 420  
a 421

<210> 9760

<211> 375  
 <212> DNA  
 <213> Glycine max

<400> 9760

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 gagcagggtg atgacatcaa tacgatattt ggaaagaccc ataagaagga aaaaaagtaa 120  
 aacttgcata ctgaagaaga ggtcgatatt gtttgatctt ccatattggg cccatctaga 180  
 tgtcagacat tgtattgatg ttatgcatgt ggagaaaaat gtgtatgata gtgtcatcga 240  
 catgtttctt aacattcaag gaaagacaaa ggatgatttg aataatcgtc aagatctaga 300  
 tgagatgagt atatgagacc agttatgtac ttgggtctaata ggtgagaaaa tataacttggc 360  
 tccaacttga cttac 375

<210> 9761  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9761

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 gggtttggca atcttagaga aatgttgtat gagctttcta tagaaaccag catgccccaa 120  
 atgtttttac tcctttcatg tctcaagggt gtgggagctt ttcaattact tctatcttgg 180  
 cttgatatac ttcaatacca cttgctgaaa ttttatgctc gagcactata ctttcgggta 240  
 ccttgtagtg caatttttgc caattaagca caagggttctt ttcaattcat ctttctagga 300  
 ctctntccaa gtttttgagg catgacatga acaatgatcc gattatagag aaataatcca 360  
 taaatacctc tactcattnt tataccatgt tagaacagat gacattcata cat 413

<210> 9762  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 9762

tgaagggtgtg taacccccca tttttcacag taaaatattg gtaatgtgtc tactattatt 60  
 gtgatcatct ctttctccgt cattggagggt gccacttgag ctgccagggtc tctccacctt 120

tgggcgatt ctttgaaaga tttgtgcccc tttttgcaca tgttctatag ttgcattcta 180  
 tccggagcca tatcagaatt gtattgatac tgcccaacga aggcaaccat taggtcttcc 240  
 caagaatgga ctcggaagg ttccaagtta gtgtaccagg taacagctac cccagtaaga 300  
 ctttcttgga agaaatgtat cagcagttcc tegtcttttg cgtatgcccc catcttccga 360  
 caatacatct ttagatggtt cttgggg 387

<210> 9763  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9763

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 tggccaagct atgagacata ataccagtt ttttgtggaa tattttgcat tggatctttt 120  
 aattaatagt gatggtaagt tgttgcagaa aacatcttgc tttcacttaa tttgcaatta 180  
 attaacctaa tgaagtctta gccttcattg gtcttgatga gtaaatttcc catgtgcttc 240  
 acatcacttg ttacaaatgt gttatctgtt tcaatggtaa tttctttatt aaacaagcat 300  
 tcaatgggtg aaattttntc ttttgccttg gtgatgggaa agttaactaa tttctttcta 360  
 tattggatat 370

<210> 9764  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9764

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 accagtagca aagattgttt tcaaaaagct ttcaactgaa tttacaacgt tccaattgat 120  
 ttcaaaatgg tgtaattgat tacaatgatt tggtaatcga ttaccagtgt gtttaaacgt 180  
 tgaaattcaa attcaaatgt gaagagtcac atcctttcac aaaaatgctt tgtgtaattg 240  
 attacaatga tttggtaatc gattaccagt gataagtttt gaacaaaaat caaaagatgt 300  
 aactcttcca atgggttttca agtttttcta aagggtataa ctcttcta at ggttttcttg 360

accagacatg aagagtttat aaaagtaaga ccttaacttg cattntacaa cac 413

<210> 9765  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <400> 9765

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 aacatgaaat tggacatcac cataatcaaa tccatgtgtc ccacactcaa agataagctt 120  
 acaaaataat tataattaaa acaatttaag aaacatcaat taactatgac ataaactcta 180  
 tcattctttag atcatgggtat ttgaaagtaa ataaaaccaa taacatccag ctcacataag 240  
 ccaaacatct catattcaac tatcatgaaa caattcaaga atcaacatca tgcacatcaact 300  
 atcaagcatt atcaacatga gttcatcaat catcatcaac atgaacacca aacatcaaca 360  
 ccaacgacag actctactcc atgggatattt acaccacatg aggaattaac caaagtacat 420  
 ccctta 426

<210> 9766  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9766

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 aagaaactct tgggcaaaca cgtgcaaadc cattaagagt ttctccatgg acttaaattg 180  
 taatatcctt ctcttcaaga gagaattctt ctttctttct tctcattcaa agagattgat 240  
 taagggactg aggatctctt aagttgtaag gattactgaa cacaagggat gggttgcccc 300  
 tgtgtgggtc agactttgta aacggatttt taaaaagga gtggaaaatt tcaagtgggt 360  
 tacttgagta ctggacgc 378

<210> 9767  
 <211> 379  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9767

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tgaagacaat agttaagggt ctaaggggtg tagacatcat ggttgcatgg tgtatgtaaa 180  
catctcactc atgtggatct tcaacacttg accaatgtta ggtggcattt taccacctgg 240  
tatagtggct tctgttcgca atgttacagt gtgcattact tgcatactg ttagtgtgaa 300  
cattccatga gttgtttctc cagacaacat tattccatca gaaccttctc gaacaacaat 360  
tagtatatct gatacctct 379

<210> 9768

<211> 204

<212> DNA

<213> Glycine max

<400> 9768

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acaccttgaa ggtataacaa gatgattgaa gggtagaggaa gagaaaaaca tgaaatttag 120  
tgcctttaa gagaactgaa tttttagtg taattttcaa atgatcgaag ctgaaaaaat 180  
gcacactggt cacttccggc agtg 204

<210> 9769

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9769

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ttggagagaa ctaactcgtg aacaaagtg tagtcaatat caacatgatt ggcacgcttg 180  
tgagcaaccg gattctggga aagaaatgta gctcttttgt tatcacaag aagagtaggg 240  
ggagcagagc aaacatgcag attgcgcagc aaatgagtga accacattag cttatctgct 300

gtatttgcca tagcccaata ttcagattca gagctggaac gagcaatagt aggctacttt 360  
 ttagcactcc aggacacaag attaccttcc aagaatatcg agtagccata ggtggagtga 420  
 cgcgtctcaa cacaatgagc ccattcgaca 450

<210> 9770  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<400> 9770

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 agatgaatga agggagagga agagaaaaac atgaaattta gtgcctctaa agagatctga 180  
 atttttagt ggtaattttc aatgaatcaa gttgaaaaaa tg 222

<210> 9771  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 9771

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 agttattgtc gtttgagtag gtcataaggt tcaacattca atttctagcc tcacgatata 120  
 ttaccggact gaatcggaca tccgagtaaa aagttattgt cgtttgaatt ggctcatagg 180  
 ttcaacattc aatttcgagc ggctcgatat attacgggac tcagtcagac aaccgagtaa 240  
 aaagttattg tcgtttgaat tggctcatag gttcaacatt caatttcgag ccgctcgata 300  
 tattatggga ctcaatcaga catccgagta acaagttatt gtccgttgaa ttggctcata 360  
 ggttcaacat ttcattgccg agcgt 385

<210> 9772  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9772

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 tttttactcg gatgtccgat tgagtctcgt aatatatcga cacgctcgaa attgaatggg 180  
 gaagctctaa gcctattcaa acaacaataa cgttttactc ggatgtccga ttcaatgacg 240  
 taatatatcg ggacgctcga aattgaatgt tgaacctgtg agccaattca aacgacaata 300  
 actttttact cggatgtctg attgagtccc gcaatatatc gagacgctcg aatatgaatg 360  
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<210> 9773  
 <211> 272  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9773

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 aaaatatgtt ntctacatcg gttattttatg acttttcaaca tcggtttttc aaccgatgtt 180  
 gaaagtaccg acgttgatag tattatcggt aacatcggtt tttgaanaac cgatgttaac 240  
 gtaaaattac caacatcggt tatattaata ac 272

<210> 9774  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9774

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 taaaggggca tcatttccaa tcatgatata ctacagaaat ggaattttta ccatcttctt 120  
 gtaacctcca gatgcatgtt tcttcttcaa gacttcaata aagtccatag cataaaggta 180  
 tggcatgttt ggcaccccta caaaatacaa atcaaatagg aatgactaa gttataatgt 240  
 ctttatctaa tatgaacata gttctggatt gatcattttt acacccttag ataattttgt 300  
 tttatacaac tatgttcaca tattaaacta tacctccatg aaccacagaa agaaaaaagt 360  
 ctttaggatg ataattntta ttttttttac ttaaagtc 398

<210> 9775  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9775

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cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgttggtgt ggatgatttc 120
tccagattta cctgngtcaa ctctatcaga gagaaatcag acacctttga agtattcaaa 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat taggagtgac 240
catggcagag agtttgaaaa cagcaagttt actgaattct gcacatctga aggcatcact 300
catgagttct ctgcagccat tacaccacaa caaaatggca tatgtgaaag gaaaaacagg 360
actttgcaag aagetgetan ggtcatgctt catgccaaag aacttcctta taatctctgg 420
gctg 424
  
```

<210> 9776  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9776

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nttctttgtg gggttgatggg ttctgtcgcg cacaatgtca tgttcactgg ctgacatact 60
ctcaattagc tcagttgctt cttccgggggt cttcagcttt atttttcccc ttgcataagc 120
atctatcagt tgcttggtt ggggtctcaa cccatatatg aacatattca attgaattgg 180
ctcaagaaac ccatgagtgt gagttcttct caataaacct ctgaacctct ccaatgcttc 240
actcagagat tcatcacgga attgatgaaa tgagaagata gcagctgttc ctctcaaagt 300
cttggactct gggaagtatt tctttagaaa ctttttaaca 340
  
```

<210> 9777  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9777

taccactata gtctatacaa agaaattatt gtgatttttt tacgctttac taaggataa 60  
 ggggaagtaa taatttttagg attttgagat aattatcatt cccttatgtg atgagtgatt 120  
 ctagaatgag aagtgtttat tgggcttggc tcttccaaag tgaataaggg taaagtaatt 180  
 aatttttagtc attgatgaaa aaaatttagcg gttgatattt caactcattc ttgatttggt 240  
 atgcaagtgc atgtaatatc gactattaat tttctcatta atgattgaga atatttaatt 300  
 tactttctag agtgagttgc tcacgaggag ctaaactctt attgaaatgt tttcttctgt 360  
 ttctgtgtct aacagcaact ttctcg 386

<210> 9778  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9778

agcttgtcct tcacggctta catgatttca ctggcatggt ctgcagcatt gcctacaatt 60  
 ggaagcaaga tgacagaaat aaaagccact gacatattca atgactcaga tgctccctgc 120  
 aagagaccag aaacacaata tgtctatgaa tgaacttatg acgcagtgtt tatggacaag 180  
 aacaagaata ggaatattag aagcttttagt tgtacaataa tagaaattaa tgatcaagaa 240  
 attctgaaaa tgatatagct atacctgtat ggcgtctaca aggtatccag acaatataga 300  
 taccatgct gtcaagatag caagccagat tattgcctcc cattgagtta attcaagatc 360  
 ttctccaca tcagaattnt caccattctc tctccctac attatg 406

<210> 9779  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9779

ntntgagctg tatcaatcaa ctctattgac aagtttgctc tttgcatgaa tgtaatgatg 60  
 aaattttaat gataaatgac gcagttataa aatgggtgggt agaaaatatg tgatagagga 120  
 ggagatggaa tgcattgttg ttacttcaat tgaatcataa atgaatgaga ggcttacatc 180  
 ataaagccta aacaattgat attcatcaat taagatcaaa atttaatcca ataattaaac 240

aatgttaacc cacaaaattc caactagaac aagaaacttc agttattacc tctatttggc 300  
 caccgacatt aatcaggaga gcatcaggga ttattggaac tttaaaccac tgatcatctt 360  
 tgaggacttg gaggccttct acttctttg 389

<210> 9780  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 9780

tataatatat cgatacgctc gaaattaatc atcggatact ctcatgaaat gtaaattggc 60  
 ataagttttc acccggatgt ccaattcggg cgcataatat gtcaagagtc tcgaaattga 120  
 acaacggaag ctcttgagaa ataaaatggt gataactctt tacaccgatg ttcgatttat 180  
 gcgaatcacg tatcgagacg ctcagaattg aacaacggaa gctcttgaga aaatcaaagt 240  
 gtcataaaat ttcacaccga tgtccaaatt agggcgcata aatatagtgc gtcgaaaat 300  
 gacaacggga gctttcgtca aattcaaagt gtcataattt ttcacactgg agtccgattc 360  
 aggctataat atatcaa 377

<210> 9781  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 9781

agcttgaatc ggacattcgt gagaattggt atgactatct gaatttctca agatcttccg 60  
 ttgttcaatt tcgaccttct cgacatatta tgcgcccga tccgacatcc gtgtgaaaag 120  
 ttatgactat ttgaatttcc tgagagtctt cgatgtttta ttccgaacgt atcgatatat 180  
 tataagcttg aatcggacat ccgcgtgaaa agttataacc atttgaattt ctcaagagct 240  
 tccgttgttc aatatcgaac ttctcgatat gtgatttgcc tgaatcggac atccgtgtga 300  
 aaagttatac cacgtgaatt tttcaagagc ttccggtggt caattttgag cg 352

<210> 9782  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 9782

gcttgaccaa cggaatgcaa atgatttact cagttctatt aggcaacact cttcagcttt 60  
tgggggatgga ctccagcggt tggctcatta ctttgccaat ggccttgaga caagggtggc 120  
tgctgggacc ccatcataca tgcccctaga aggaacaact tccgctgata tgttgaaagc 180  
ttacaaacta tatgttacat cctctccttt gcagagggtg acaaattatt tggcaacca 240  
tacaattgtt agtcttgtgg aaaatgaggg cagtgttcat attattgatt ttggcatttg 300  
ctatggtttt cagtggccat gccttatcaa gaagctctca gaaaggcatg gtggtcctcc 360  
gaggcttcgt ataacaggaa ttgaacttcc tcagccggga tttcggcctg cag 413

<210> 9783

<211> 438

<212> DNA

<213> Glycine max

<400> 9783

agcttataat atatcgaggc gctcgatttt gaacatcgga agctcttgag aaattcaa 60  
ggtcataact ttttaactcg agttcaattc atgcgcatca catatagaga cgctaaaaa 120  
tgaacaacgg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180  
tcaggcttat attatatcga gacgctcaa attgaacaac gaaagctctt gagaaattca 240  
aatggtcata actttttaca ctgagggtccg attcaggctt ataatatatc aagtcgctcg 300  
aaattaaaca tcggaagctc tcgagaaatt caaatggtca taacttttca cacggatgtc 360  
cgattcgggc gcatattatg tcgagaggct cgaaactcaa caacggaagc tatcgagaaa 420  
ttcaaattggt cataactt 438

<210> 9784

<211> 401

<212> DNA

<213> Glycine max

<400> 9784

agctctgata acattcatac gacaattact tattactcgg atgtctgatt cagtcccgta 60  
atatatcgag acgctcgaaa tggaattttg aagctctgag caaattcaaa cgacaatcac 120  
tttttactca gatgtctgat tgagtaccgc aatatgtcga gacgctcaat attgaatact 180

gaagctctga gcaaattcaa acgacaataa cttgtcactt agatgtctga ttgagtcccg 240  
 taatatatcg agttgctcga aattgaagac cgaagctctg agcaaattca aacaacaata 300  
 acgttttact cggatgtctg attgagtctt gtaatatata gagacgctca atatggaata 360  
 ccgaagctct gagcaaattc aaacgacaat aacttcttta c 401

<210> 9785  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 9785

tgaaggaaaa ctggatgcat tggttaactt ggtaatttaa ctggccttga atcagaaatc 60  
 tatacctggt gcaagggttg tggtttgtgc tctctgctg accaccatac agacctttgc 120  
 ccttccatgc agcaacctgg agcgattgag cagcctgaag cttatgctgc aaatatttac 180  
 aatagacctc ctcaacctca gcagcaaaat caaccacagc agaaaaatta tgacctctcc 240  
 agcaacagat acaaccctgg atggaggaat caccctaacc tcagatggtc cagccctcag 300  
 caacaacaac agcagcctgc ttcttccttc caaatgctg ctggcccaag cagaccatac 360  
 attcctccac caatccaaca acagcaacaa cc 392

<210> 9786  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9786

ntattcccca tttaatgtca ttttataatt aagcatttta caatttgaat tatcttaatg 60  
 ttctaaccgt gcttattatt tacaaatatt atcctcagat atttacta ttgaattcca 120  
 aaaaaagagg tttacctcat gctcacattc ttttgttctt acatccttcc aacaagtatc 180  
 caactcctaa agatacagat aaaattgtct caactaagct accagatcaa aatagagatc 240  
 caattttaca tgagtgcac aagagtcata tgatacacgg tccatgtaga ccagctaata 300  
 gacattcacc atgcaagaaa gatggtaaatt gttctaaatt tttccataaa aggttccaat 360  
 aaaaaaacat ttgttgacca ggacaattac cctat 395

<210> 9787  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 9787

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agcttgtctt catggggaat agagtgtaaa ctccagtgga agcagtcaag acttatcggt 60
taaaacttga cattagacat catttagatt tactgggaac tttttatggt cctagtttat 120
ctaggaattht agtttcatta tctaaacttg atgttactag atactctttt aattttggta 180
atggatgttt ctgtttattht aagcataatc atctcattgg tactgggtgtt ctttgtgatg 240
gcttatataa attgaaatca gatggtttgt atgctgaaac ctctttaact ctgcatcata 300
atcttggcac taaatgtagt ttagtgaatg aacgatctac tttcttgtgg cataaacgtt 360
taggtcacat ttcaagagaa aggatggaaa gattaataaa gaatgaaatt ctactgatc 420
t 421
```

<210> 9788  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9788

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agctntgttc caaacacttc tttggttctg tttcttcctc gttttttatc acaagattgc 60
cactgtccaa aagcactact acaggattct gtgcttgtht gtgagagttg ttggtgtacc 120
agacaagata cgcatttttg gtgagaacaa gattgcctgt gttgttgagt gttatgatac 180
ccgaggaatc attgatgggg ttggccttat tagcaacca aacaactgtc tggattggga 240
tgthcttgta ccaaataccc acataacgtt tatgggaata acctggtgat gtgccatcat 300
tttcttctat tttctaaacc ctttttgcac cattttaatt attgattgat ctttaattgtc 360
aattaattag gcagttntat tatttgggcc cattaagcta atttgatgtt nttaatct 418
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<210> 9789  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 9789

gacaacaggg agtgaagatt gctgaaaacc ctagccttgc aacatgtcct atggaagtag 60  
acacggagat ggacaagaaa atccgcagta tggtagtag cattttgaaa gaagcctctg 120  
tgcctgaagc tgatgaagat gttccaacat cttccacccc gaatgtttct atgcctgatg 180  
ttgagaaaga tgttccaaca tcttcggcc catatgatga agtactgtct tccccagca 240  
aagagagatc aacagaggaa gatgatcaag ccgcagagga gaccctgca ccaagggcac 300  
cagaacctgc tccaggtgat ctcatgact tagaagaagt cgaatctgat gaagaacca 360  
ttgccaacag gttggcacct ggcattgcgg aaagacttca aaacagaaa 409

<210> 9790  
<211> 313  
<212> DNA  
<213> Glycine max

<400> 9790  
tcacggtaaa tatagacatc ccattcctag gctagacgat atgttggatg aattgcatgg 60  
agcctgtgtt ttctctaaaa ttgatttgaa aggtgggtac catcaaatta ggattagaga 120  
gggggatgaa tgaaaaacaa ctttcaaac taagtatggg ctgtatgaat cgcttggtat 180  
gccctttgtg ctaaccaatg ctctaacac tttcataaga ttaatgaacc atgtgttaag 240  
ggaatttcta ggaaaatttg ttgtgggtat tttgatgata tcttgattta cagcaaattc 300  
catgatgaac atc 313

<210> 9791  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 9791  
gtgtcttatg aatccccctg tgcttatgcc accagtacct ggaaggcctc tcatttata 60  
catgacaatc ttagatgagt caatggggtg tatgctgggg caacatgacg aatctggaaa 120  
gaaagagcgc gctgtttact acctgagtaa gaagttcacg aactgtgaaa tgaattactc 180  
attgctcgaa agaacgtgtt gtgcttagt atgggcatcc catgcctaa ggcagtacat 240  
gctgagccat actacctggt tgatatccaa gatggaccg gttaagtaca tctttgaaaa 300  
gccagctctc acgggacgaa tcgcccgtg gcaagtcctg ctatccaagt ttgatatagt 360



ttacgtcacc caaaaggcga taaaaggaag cgcttagca gattatt 407

<210> 9792  
<211> 352  
<212> DNA  
<213> Glycine max  
  
<400> 9792

tttccctcct tcaaggaatc ttcttgaagc cctctcacat acgccacacc atacttgga 60  
ttcatcagag ggtcttcccc tgcagtctct tgccctctcc cccaccgtgg atccctgaaa 120  
acgtttatgt tcggagccca gaacgtcatc cccgtcgctt gccccgcatt gtacaccgcc 180  
ctcgcttcct tcccaatagt cttcagcaac aatgcagtaa cataacacca acatgtcaat 240  
aatgtaattc gataaagtcc cacaccgag taataagag aagatgaagt gtatataaag 300  
ctttgaggtg ttggatgtta gtgattatgc aactgacctt gctgatttgg ta 352

<210> 9793  
<211> 548  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9793

agcttggtgct aagaatgtca tgatcctttt catcatattt taagaaaatt gaatgtcatg 60  
atccatcact tctctgcata tatatttagt attaagatgt gtaccaacaa tcctaaaatg 120  
ttctgtgcag atattttcca ttgaaagaca ctacacaaga ttagagactc cgaaattaat 180  
tttgttttat gccaatgct attatgcttt gttgtgtctt gctaaatgca tatttaattt 240  
gaagcaactt cattatTTTT gtgttatctg ttaatggttt aattggataa tagtttacia 300  
gccaggtaat atataattta gatatatgtg cagagatgta atattgtcat gtaaatttta 360  
atatttaatt attgttatgt tagagtatgt gcatgcaatt gttttagaga gggctggtga 420  
taagtgaagc tagctcacia acaattcaag atgcagttag ctttataagc taggctcatg 480  
agtcatgatt ngagtctgat ttgaattttt accctgttta gtaaagtgagc tgagcttcag 540  
cttttaat 548

<210> 9794

<211> 350  
 <212> DNA  
 <213> Glycine max

<400> 9794

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agcttaatct catagaaggg aagcgtttgt tcaccatgag tcatgggCGT ttatatcaga 60
aaagagtGaa gaacgctttt gacaagaagg tacatatgCG cCGgttttagc aaaggggact 120
tggtgttgaa gaaggtctcc caagctctga aagacaacag aggggaagtgg gacccgaact 180
acgaagggcc tttcgctgta aaagggcttt ctccggaggg gctctgggtgc tcaccaacat 240
ggatggcgag gagctacctt caccCGtgaa ctccgatggT ttcaagcgat actacgctta 300
ggatctgggg caattgagga agtcgctgca tgTtctttta tttttgggtg 350
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<210> 9795  
 <211> 650  
 <212> DNA  
 <213> Glycine max

<400> 9795

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agcttatata tttatttatc tctatttatt aataaactaa aatagtaatt acattgtatt 60
tttagtTTTT actatttttt aatacaagta acaaaatatt ctacaaatta agagaaaact 120
attaaaaaaa ttagctaaat ttattaaagt aaaaaggaaa atatacatat aatgcaattt 180
ctattattta taaatagata taaatagttt ttgttatctt ttattgttta atttctacgt 240
ttgaaagtaa aagcattaag ttactgttta tttagttgat tttttaattc ttaactaata 300
atatatttaa ctaattagac attgtacaaa aaaattgtgt tcaaaataaa aattattttt 360
cataattaat ttttaagaaa atggtaaatt ttatatcaat aaaatggaga ataattatga 420
acaagtcacG gatctattta tagcacatat attgataata taaataatga aaaataaaca 480
aacattataa aatattcatt atgattttta cataatccat tttggtatta tcctaattgg 540
aaattgggtga attttttaag gataatataa tattttttta atattttttt aatcaattat 600
ggataatttt taaatattca aaaataattg ggattcaatt aataaaaaaa 650
```

<210> 9796  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223>       unsure at all n locations  
<400>       9796

gacttgatgg ggcctatgca caatgcaaag ccttgtagga aagaggtatg cctatgttga   60  
tgtggatgat ttctccagat ttacctgggt caactttatc agagagaaat cagacaccta   120  
tgaagtattc acagagttga gtctaagact tcaaagagaa aaagactgtg tcatcatgag   180  
aattangagt gaccatggca cggagtttga aaacagcaag tttactgaat tctgcacatc   240  
tgaaggcatc actcatgagt tctctgcagc cattacacca caacaaaatg gcatagttga   300  
aaggaaaaac aggactntgc aagaagctgc tanggtcatg cttcatgcca aagaacttcc   360  
ctataatctc tgggctgaag ccatg                                               385

<210>       9797  
<211>       310  
<212>       DNA  
<213>       Glycine max

<400>       9797  
cgcccttgac attaatgggt tgaggaagta tctcaatcac atcgatcttt gccttgccca   60  
cctctattcc ccttactgag atgttatgcc ccaacattat tccttcttga accataaaat   120  
ggcattttct ccaattgaga actatattgg actcttcata tctctgtaat actctttcaa   180  
gattggataa gcacccttca aaagatggca cacaacaga gaaatcttcc atgaaaactt   240  
caatgcattt ttccccata ttagaaaaaa taaccatcgt acacctctaa aatgatgtcg   300  
gggcgttgca                                                                       310

<210>       9798  
<211>       384  
<212>       DNA  
<213>       Glycine max

<400>       9798  
acttcattac tgttattcag tattacaaat gagcttggtg caattcttct agacttagag   60  
tgataacatg taatcctctt gaacccttac ctccactct ctcacatgc cgagactcog   120  
gaaccctaac aggttttgcc tttccatgt acttgaaaca aaactcaata gcttctttct   180  
caatgtacct ttcaacaata gatgctttag gacggtgtag attatttgta taccatttta   240  
agatcttcat gcatcactca accgggtaca tccaccgcaa ataaacggga ccgcaacatt   300

taatttccct caccatatga acaatttatt gaaccatgat gtcaaaaatg aaagaggaaa 360  
 atatattctt cactgacata tgat 384

<210> 9799  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <400> 9799

agcttgttgt tcctggatgc atctggtatt ggactcaaca attgctaaga gaattgtctc 60  
 aactttgtca aatggaggga gaactatctt gatgaccata cctcaacctt caagtaggat 120  
 gtattgcatg tttcaaaagg tgtttatgct ttcagaaggg aaccttgtgt attttggaaa 180  
 aggatctgaa gctatggaat atttttctag atttggatat gcccacacca cggatcatgaa 240  
 ccctcagat ttccttttga atcttgcaaa tggatgttg tttgctcttt attattttaa 300  
 aaagtgtgag gtttcctttg ttatttatga aactttgtgg acagaagttc aaaatctcat 360  
 ttatctatta gtacctacat atatttggat aaattcactt attctatttt tcatgattga 420  
 ttaaacttat aaattagatt ataagaatta ctagctttgt gacaagtcac tcatttaagt 480  
 tcttttcacg tcaatttttc atg 503

<210> 9800  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 9800

agctttgtat ggtagaaggg gtatgttctc cctatgttgg ttagagcccg gagaaggcct 60  
 caccttagga ccagaagtgg tacagcaaac cactgagaaa gttaagttaa ttcaggagag 120  
 gatgagagct gttcagagta gccagaaaag ttatcatgat aagaggagga aagatctgga 180  
 attcaagggt ggtgatcatg tattcttgag agtcaactcc tggactgggg ttggtcgagc 240  
 attgaaatct cgaaaactca cacctcgctt aattggctct tccaaattc ttaagagagt 300  
 tggcctgtg gcataccaaa ttgcattacc cctgtctctt tctaattctt acaatgtctt 360  
 tcatatgtct caactccata agtatatctg ggatccatcc catgtgattt gattggatga 420  
 tgggtcaaag 430

<210> 9801  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 9801

tatgacgatt cgaattttctc tatagcttcc gttgatcaat ttcgagcttc tcgatatgtg 60  
 attagcctga atcggacatc cgtgtgaaaa gttataccag ttgaatttct caagagcttc 120  
 cgttgttcag ttttgagcgt ctcgatatgt gatttgcctg aatctgacat ccgtgtgaaa 180  
 agttatgacc atttgaattt ctcaagacct tacgttggtc aatttcgagc ctctcgacat 240  
 attatgcgac cgaatcggac atccgtgtga taagtattgg ccatttgaat ttctcgagag 300  
 tttccgatgt ttaatttcga gcgtatcgat atattataag catgaatcgg acatacgtgt 360  
 gaaaagctat gaccat 376

<210> 9802  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9802

agcttgtaga attcacccca attccaattg catatgttga cttactcccc tatctgctcg 60  
 ataatgcaat ggaagttata agcccaacaa agatttctca accttctttt cctagaggat 120  
 acaaccccaa cgtgacatgt gcttatcatg ggggagttcc ggggcattcc attgagcatt 180  
 gtatgaccct gaaacataag gtgcaaagtc tgattgatgc aggctggttg agattcgagg 240  
 aggaaaatca ctcgggagtt ttgatgtcgt tgtgatgcaa tcctaccccc caagggcatt 300  
 ggataaaaaga ctccaagaag attggggcaa agatgcaaga gaaggcccta gggttctcat 360  
 gaggccttang gtagatttcg ggcccatggg ctaagtatga gcccaattat ctttgtacat 420  
 attagattaa gatttcatta aattgggcc 449

<210> 9803  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        9803

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acttaccacc ctcttattga tggccagact aaacactcca ttcagtcgct gaaggatctt   60
ttgagggcat gtgtcttaga acaaaaagga agttgggaga gttttctgcc attgatagag  120
tttagctata acaatagttt tcattctacc attggaatgg ctccctatta agccctgtat  180
gatagaagat gtangacact cctgtgttgg ctagaacctg gagacaacct caccttagga  240
cctaaagtgg tacaacaaac cactaagaag gtcaagttaa tccaagagag gataaggact  300
actcagagta ggcagaagag ttatcatgac aagaggagga aagacctgaa attcgagggt  360
ggtgatcatg tattcttggg agtcacttcg tggactgggg tt                        402
```

<210>        9804  
<211>        487  
<212>        DNA  
<213>        Glycine max

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<400>        9804
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tcacgatta  ctagtaacgg aattttttgaa attcaaaatg aaaagacatg acttctcatt  120
aaataaatgt gtaatcgatt accaaaaatc tgtaattgat taccaatgag gaaatttcaa  180
cgataactct gaaaagtcac atttcttcat gagttttttg aaaagccacc aaaggcctat  240
aaatatgtga cttggcttta aaaaatcttc agagtttttc ggaacctcat tgtcttattc  300
tctcaaaaac aaaaatttgg ccaaacactt gcgaatcaat taagggattc ttattagttc  360
ttcaaattgg attattcttc tctaaaaaga gagaaaaaat tgtgtacatt aaaaagtaaa  420
actgttggtg agatgaagaa gctgtgaaat ctcttgattt gggagttttt ttgaacacaa  480
aggaaag                                           487
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<210>        9805  
<211>        432  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        9805

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ntggccaatt ctgccaantn naggtcaaat tgagctttta tgtagaacc tttgcacttg   60
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 gtaggtagtt aggtagttag ttagttattt actaacactc tatatattag tgtagttag 180  
 ttagtgactt cacttgaact tcattttgta caaaagtact tgtgtaagct gatgcaatcc 240  
 tccctaaagg gaccagtcac taagtgaata tttgatgtgt gtgttgagaa ataaatttaa 300  
 ttgaattggt agaagccgta tccaattaaa ttttagaggg ggaggtgagc atttacttgc 360  
 tacaccccat tgccacatca tatagtcaca ctntgtgcat gtccttcacg ctttacatgc 420  
 ctcatgacac ct 432

<210> 9806  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 9806  
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 taattccgat atggctcccg atcgactca gctacaaaat atgttcaaga aggaagatga 120  
 gacctttaa gaatacgcgc agcgatggag agacctggca gcacaagtgg cacctcccat 180  
 ggtcgaaagg gagatgatca ccatgatggt agacaccttg ccagtatttg atgcaatcct 240  
 accccgtaag ggcattggat agaaaactcc aagtagattg ggccaaagat gcaagagaag 300  
 gccctagggg tcttatgagc cttagggtag atttogggcc catgggctaa gtacgagccc 360  
 acttatcttt gtaaataatta aattaaggtt tcattatttt tg 402

<210> 9807  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 9807  
 agcttgctcg tcttgctgat atttatcatg ctgacttttc tgatgatgac cgaggaacaa 60  
 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120  
 gtgaagatgt tcaaagtttg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180  
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca acatccgttg 240  
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300

tgtggttcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcacttgatg 360  
atattgatat tattcgaaca tctaccgcaa agaagtctcg gaaaagacac ttgcctcgta 420  
atatttattta accccctatt ggaaggataa tgттаатст 459

<210> 9808  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 9808

attgagagga aaaatatatg ttatgtctaa caagccaaca aaggagagaaa gaaggttgtc 60  
ttcgaacccg gagattgggt ttgggtgcac atgagaaaag aaaggtttcc ggaacaaagg 120  
aaatcaaagc ttcaaccaag gggagatgga ccatttcaag tgcttgaaag aatcaatgac 180  
aatgcttaca aagttgagct gcccggtgag tataatgtta gttccacctt caatgtctct 240  
gatttatctc tttttgatgc agatggagaa tccgatttga ggacaaatcc ttctcaagag 300  
ggagagaatg atgaggacat g 321

<210> 9809  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 9809

tgttccaaat gttttttaaa tgtgtgtaat tgattacaat atattggtaa tcgattacca 60  
gtgtatctga acgttgaaat tcaaattcaa ttgtgaagag tcacatcttt tcataaaatg 120  
ctttgtgtaa ttgattacaa ggttatggaa atcgattacc agtgacaagt tctgaataaa 180  
aagtcaagag atgtaactct tccaatgggt ttctcaagat tttctcaagg ttataactct 240  
tctaattggtt ttcttgacca gacatgaaga gtctataaaa gcaagacctt gacttgcatt 300  
tcaataatth ttacaactth tgaacttctt tgaacaactt ttgagatatc ttgaaacctt 360  
cgcttctaат ctttcttctt cttcctttgc caaaaagctt tctaagtttt t 411

<210> 9810  
<211> 427  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
 <400> 9810

tcttagtctc agatnannnn atgagtttgt agctacctta tgcactcctc taatgactat 60  
 ggcatcattt ctggcgctaa actgctagga gttggaagcc atcttctcaa ttaaatttct 120  
 aacttcagca ggagtcatgt ctccaagggc ttcaccactg gcagcatcta tcatacttat 180  
 ctccatatta ctgagtcctt tataaaaaata ttggagaaga agctgctctg aaatctgatg 240  
 gtgagggcaa ctggcacata attttttaaa tcgctcccag tactcataca ggctctctcc 300  
 actgagttgt ctaatacctg agatatcttt cctgatggct gtggtcctgg aagcagggaa 360  
 aattttttct aagaatactc tcttaaggcc atcccagctc gtgatggacc ttggagcaag 420  
 gtaatac 427

<210> 9811  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 9811  
 agcttggtat gaaaaactaa gtttacttct cttaaaaaat ggctttgagc gaggaaaggt 60  
 tgagaaaaca cttttttgca aaaactatga atctcagttt ttatcagtgc aagtatatat 120  
 ggacgacatt atatttggtg ctattaataa aatgctttgt gaagattttt ctaagctaata 180  
 gcaaacagag tttgaaatga gtatgatggg agaattgaaa ttctttcttg gactacaaat 240  
 aaagcaaaca cccaaaggta tctatattca ccaaaccaag tatgtgaaat aattgttgaa 300  
 aaaagtcaac atgaacaatg caaaagaaac gaagactcca atgcatacta caacatacct 360  
 aggtggttga aagcccacat gcaagatttg gattggctcc caagtttgag aactactaaa 420

<210> 9812  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 9812  
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 agtgtatctg aatgttgaaa ttcaaatca attgtgaata gtcataatct ttcataaaaa 120  
 gctttgtgta atcgattaca tggttttggt aatcgattac cagtgacaag ttttgaataa 180

aaatcaaaaag atgtaactct tccaatgggt ttcagggttt ctcgaggtca taactcttcc 240  
 aatgggttttc ttgaccagac atgaaagggtc tataaaagca agatcttgac ttgcatttaa 300  
 cagaacaatt acttacaact tttttatata ctcttttaca acctttgaat ctctttgaac 360  
 atcttcttga acttctt 377

<210> 9813  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 9813

ataaggcatg cgaagtgggt ggaattccta gagtctttcc cttatgttat caaacataaa 60  
 acgggaaaag gaaatattgt agccgatgct ctttctcggc gtcatgcatt actttctatg 120  
 cttgaaacaa aattgattgg tcttgaatgt ttgaaaagca tgtatgaaaa tgatgaaact 180  
 tttggagaaa ttttaaaaat gtgaaaaatt tcagaaatgg ttctttgaca tgaagctttc 240  
 tttcaaagaa acaaattgggt gtcctaattg 269

<210> 9814  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 9814

cagcatgcaa gctccacact ggagaatgga gaacatatta ttagcgctag gcaaaaacac 60  
 tcaggggggt ccgaacaaaa gtagaggatg gacgaatgcc aagaaggacc gcacttaggc 120  
 aaacatgaaa ctcagctcca aactcgaaag tggaggacac aagaatgaca acgcggcacc 180  
 cgaaaaggat gagaaaggag gattgccgtg agggacctca cttaggcaat catggaacac 240  
 agatccaaac tcgaaagtgg aggacacacg aatgacaacg caaaggatcc acggggcccc 300  
 agaaaaggaa gataatggag 320

<210> 9815  
 <211> 614  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 9815

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tcattgtcat cgtTTTTTcg tcattgaggt gccacttgag ctgccagggt ctccaccttt 120  
gggcgtattc ttagaaagat ccgtgcccct ttttctTTTT tttttttcac atgttttgta 180  
gttgcatcct atccgaagac attatactga cactgcctaa cgaaggcaac cactagggtcc 240  
ttccaagaat ggactcggga aggttccaag ttagtgtatc aggtaacagc taccacagta 300  
agactttctt ggaaggaatg tatcagcaat tcctcatctt ttgcgtatgc ccccatcttc 360  
cgacaatata tcttttagatg gttcttgttg caagtattcc ccttgtactt gtcaaagtcc 420  
gacaccttga acttgggagg ggtgatgata ttgggttcta agaacaactc tnttaagtta 480  
gcaaaggcat aatcttcacc tccttcaatg gccctgagtc tttcctctat atgatccaac 540  
tcttccattt ctgccatagc acaaggTTTT ttactttgtg tggaatgcaa gaggtgtaac 600  
ttggggtgat actg 614

<210> 9816

<211> 631

<212> DNA

<213> Glycine max

<400> 9816

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atttctgagc aacttcttct tcaatacttc tatgagggac ttaccaacat ggagaggagt 120  
atgattgatg ctgccaacaa ttcaattcaa gaaatgatgt tattgttctt agaggagtcc 180  
atgagggtggc cacagattca tcttcatcta ctgaaaataa aaagcttgaa ggaaaacttg 240  
atgccttggc caaactagta actcagcttg ccatgaatca gaaatctaca cctgttgcaa 300  
gagcctgtgg tctatgttct tctgtagatc accattcaga tctttgtcct tctttgcagc 360  
aatctggagt caatgagcaa cctaaagctt atgctgcaaa catttataat agacctccac 420  
agcagcaaaa ccaacaacag caaaataatt atgacctttc aagcaacaga tacaatccag 480  
gttggaggaa tcatccaaat ttgagatgga caagcccttc actacaacaa tagtctatcc 540  
cttcttttca gaataccgct agtccaagca tgccttatgt tcctcctcca atgcggcaac 600  
aacaacggca gctacaacaa atacaacaag c 631

<210> 9817  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<400> 9817

agcttgccctg gttttatttt gtgataatta tgaagaatga ttttatttat ttttatttta 60  
 aaacttagta cactacttat aagttataat catacactaa aaaattacta tcaagcttgg 120  
 cattattttc aagaacttta ttgtttcttt gggttgcacat tttccattta ccattgtctg 180  
 ttttcaataa gtaggcacgt tattgaattg aattgaattc ttaagaatct aggcatgtga 240  
 atcgattacc agagacagaa tacttagagg tttttcaaaa agaagtttga aatttgaatt 300  
 ttaaatactg taatcgatta ccatttaact gtaatcgatt ccagtaacg aaaatttttag 360  
 aaatttgaaa tgaaaagtca tgaccctcà atgtataact gtgtaatcga ttaccagtga 420  
 gggaattcta aaattgttct gaaaagtcac atctcttcaa aagttttgaa aaaccacaaa 480  
 gggcctatat atatgtgag 499

<210> 9818  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<400> 9818

agcttaacta cacttaaggt tctttgctcc ttcaaaacta tgtgttcaac taagcaatgc 60  
 attaaagaca tgttaattta attgaataat aaatgcgagt ctttattagg aggtgtgatt 120  
 aattcattta atataataaa tgggcagatt attcaaggag tagttgaaga tttgatttat 180  
 tctagactat tactttttgt tggacaagtg acctcaataa ctttaagagg ggtgaattaa 240  
 ttaagtttta aaatttcccc gctaacaaat ttttaaccct ttttaaataa tacatgataa 300  
 actcaaaatg cagaagaaga agaagaaaca atcaatttaa taattttctt ttaaatgcac 360  
 aagacaaagt aaactgcaat aaaataactg agataaggga agagagaatt gcaaaactga 420  
 tttatcctgg tttggccact ccccgctcct atgtccagtc ctttaagcaac ccacttgaga 480  
 ttttccacta tctttgtaaa ctctttacaa cttctgaaca catcttgga tttctctctc 540  
 ttgtgttcag gattctcata agtca 565

<210> 9819  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 9819

agcttccatc acttttgacg actgtttttt gagattcctt agcattggcc tgataccttg 60  
 cacataagta agcacttagc atgacatatg gtctattttt agttaagtag aggagtgatc 120  
 caatcatacc tctatatctt aactcatcca ctgatttacc tttctcatct aagtcaaggt 180  
 aggttaaagt tgccattgga gtagatgctt ctttgcatth ttccatgcc aatttcttaa 240  
 ttagttttgt acaatatttc gtttgattta ggaagggtcc atgtttcatt tgcttgactt 300  
 ggagtccaag aaagaagttc aactctcccg tcatagacat ctcaaattcc ttttgcatat 360  
 aactagaaat ttccttacac aaaatttcat ttgtagcacc aaatataata tcattaacat 420  
 atattttaac aattagcaac tcaactgtta cttttcttaa taaacaatgt ttt 473

<210> 9820  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 9820

gcgtctcaat agattacggg actcattcag acatccgagc aaaacgttat tgcgttttgg 60  
 attagttcag agcttcagaa ttcaatttcg atcgtctcga tatattacgg gactcaatca 120  
 gacatctgag gaaaaaagtt attgtcgttt gaatttgctg agagctcaac attcaatttt 180  
 gagcggctcg atgtattacc ggacctaatc aaacctccca ggtaaaaagt attggtgggt 240  
 ggatttgctg agaa 254

<210> 9821  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 9821

aataacaaaa tgcacatttg gccaacctc aggcaagtac ctgggacatg tgggttcttc 60  
 tcgcgggggc gaaacagtgc taaccaaggt tcacgtatatt taacagtggc cggaacctct 120

atcggggcat gcactcttaa actttttggg actcgcggga ttctacaaaa gattcatttt 180  
 cggctatgcg acaattgctg caccttaacc caacttctaa cactggaacc ttttcaatgg 240  
 gccaagaag ctctgcaat ttttgctgct cttaagcaga tgctgacctc aaccctgtt 300  
 ctccggttgt cggactttac tctt 324

<210> 9822  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 9822

aacatagaat tcccatgtat atgtagatag tttctgcatt ctaccagaca attttttttt 60  
 agaaataagc aataggatgc ttgttttggc ttaacacaac accaactccc ctccctgaag 120  
 catcagtttc taatacaaaa agtttattga aattaggaat agccaagaca ggtgcagaag 180  
 tcatggctat cttaagtttt tggaaagcct gtgcagtagc ttgaccccat ttgaaagagt 240  
 ccttcttcaa tagaacagtc agaggtgttg caatggtagc ataggtctta acaaactcttc 300  
 tataataacc tgtaagtcct aggaagcccc ttaatttctt tagattcata ggctctggcc 360  
 aattctgaat tgcctctaatt ttgtttgcat ccatagctat gcctgacct 410

<210> 9823  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<400> 9823

agcttgttca tcttgagata atttgtgttc atcctcattt gaagttgatg gtgcaacata 60  
 tttctttggc ctaacaggaa ctccaatatt ttacagctt ttaatgttat gattggtttg 120  
 gccacacctt ccacatgtaa actcaggcaa tttcctcttt agcttatgtc ctgtgacatt 180  
 gtccctcattt acaggtctcc ttctattttt ctttggcctt cctcttttga cccttttatg 240  
 tgggtggaaca ggggtgtgtat actgtgtctg ggccccaatat tgtggtcctt ggactgggtc 300  
 aataaaatgc tagtatgtct tattataagc ttctattgac agccactcat gacacatgtc 360  
 ctcaggcttc cctcctttgt gagttattgt tgcaatgaca tgtccgcatg gcatccctac 420  
 atcaaagttg taaaatcagc acacatgtag gttaggaatg aaaaaaaaaac tattaagaac 480

acaacctggt agttgccata ctccacaagt gcatgtccat tcacctaata tgacctcaac 540  
 cttattttccc cacatgtg 558

<210> 9824  
 <211> 117  
 <212> DNA  
 <213> Glycine max  
 <400> 9824

agcttcaaca tcagacgcct ttctttgtgt tggaactact tctcatggac ttgatggggg 60  
 ctatgcaagt cgtgagcctt ggatgaataa ggtctgccta tgatgaagcg gatgatt 117

<210> 9825  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9825

agctntctcc actaagttgc ctgatgcctg aaatgtcttt tctgatggca gtggctctag 60  
 atgcagggaa gattttctcc aagaacaccc tcttaaggte atcccagctg aaaacggacc 120  
 tgggagcaag gtagtatagc caatcttttg tcactccctc cagagaatga ggaaaagcct 180  
 ttagaaagat atgatcttct tggacatcag ggggcttcat ggtggaacaa aaaatatgga 240  
 actccttaag atgcttatga ggatcttcac ctgcaagacc atgaaacttt ggcagcaaat 300  
 gtattagtcc agtcttgaga acatatgaaa caccctcatc aggatattga atgcacaagc 360  
 tctcataagt gaaatcaggt gtagccatct ccctaagagt cctcttacga ggtggagggg 420  
 gagccatgtt ctcagtatga aa 442

<210> 9826  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <400> 9826

tcataagggt atatatggcc tcaaataagc tcctaagtct tggtttgata aactaaatga 60  
 gactctacta atgtttgaat tcaaatacaa caagtttgat ccttccactat ttgtttatct 120  
 taaggcttca tccataatct acattccggg atatgttgat gacatcataa aaacatgaaa 180

tgatattcct ttattacatc aactcatttc taagctaaat atagtatttt ctctcaaaga 240  
tcttggatcc tcagattatt tcttgggaat gaaagtaaag catctatctg atggttccat 300  
tgctttaact taaaccaaat atattataga cttaatgggc aaaaccaaca tgttagatgt 360  
caaacctata tcttcccaaa tggttaactg 389

<210> 9827  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 9827

agcttcattc ttagaatgaa gtaagtagat atacatatat cgtgaataat catctataaa 60  
ggttatgaag tatttcggac tatttgcac catgtctgga caacatatgt ctgtatgtat 120  
gatttccaat aaattagaac tctcttttgc acccttttta gacttgtagg ttttcttacc 180  
cttaatgcaa tctacacaag tctcaaaatc atcgaaatcc aaagtactaa gtactccttc 240  
atttactaat tgcttgattc tctcaataga gatatgtcct aatctctggg gccacaacat 300  
agaggattct tcattcacat tacatcgttt taaccaata gaaacatgca tagaagtagc 360  
atcgtttttc aattcaatcg aataaagacc atcaaccaat tgaccacaac caataatttc 420  
agaattattt 430

<210> 9828  
<211> 266  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9828

gctctcgaga aactcaaagt gtcataactt atcacacaga cgtccgattc atgcgcataa 60  
tatatcgaga cgctcgaaat tgaacaacgt atgggtgtcg gaaattcaaa tggtcataac 120  
tngtcacacg gaagtccgat tcatgcgcat aatatatcga gacgctcgaa attgaacatc 180  
gcaagctctc gagaaattcc aatggtcata acttgtcaca cggaagtccg attctggcgc 240  
ataatatatt gagaagcttg aaattg 266

<210> 9829



<211> 419  
 <212> DNA  
 <213> Glycine max

<400> 9829

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agcttgaaat tgaacaacag atgctctcga gaaattcaaa tggtcataac ttatcacacg 60
taggtccgat tctggcggat agtatatcga gaagctcata attgaacaac gaaagctctc 120
aagaaattca aatggtcata acttatcaca cggaagtccg attaaggcgc ataatgtatc 180
gagacgctcg aaattgaaca acggaagcac tcgagaaatt caaatggtca taacttatca 240
cacggaagtc cgattaaggc gcatagtata tcgagaagct cataattgaa caacgaaagc 300
tctcaagaaa ttcaaattgt cataacttat cacacggaag tccgattcag gcacataata 360
tatcgagacg ctcgaaattg aacaacgaaa gctctcgaga aattcaagtg gtcataact 419
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<210> 9830  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9830

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cttcctagtt ttcagcttac ctatttggat gtgggatcat ggcagttagg tcccagcttt 120
ccatcgtgga ttcagtcaca aaaaaaactt aaatatattag gcatgtctaa cacagggatt 180
attgattcta ttctacaca gatgtgggaa gcacaatctc aggtttttgta tttaaaccac 240
tctcataatc atatccatgg tgagcttggtg actacattaa aaaatccaat atctatccca 300
actgttgatc taagcacaaa tcacttatgt ggtaaattac cctatctttc aaatgatgtg 360
tatgggttag acctttcaac caattcattc tctgaatcca tgcacgattg tttatgtaac 420
aat 423
```

<210> 9831  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 9831

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actttaatag tcgttttata gattcggcgt tgtcaagtgg agaacgtaac tttccaaga 60
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attcattttt ttatggatac tgtctcattt tctgcataaa aatttgtaga gattctgata 120  
 ggtctagatt aatctgataa ttcaaatcat accacttaaa tgtattcgaa tcttttttat 180  
 tcatatcaga ttcgaattaa tctaattgaa aatcgatgtt gatagacttt aattattata 240  
 tatagataga atttttatga tttaatccat taatcatgtg ttattttcta taatttgcta 300  
 ttatttagtt gggttctaagt caataataac attcatatat atcgcttaca ttataatggg 360  
 aagtatggca ttattatttg tcaacaatgg aataaaatta tgtta 405

<210> 9832  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 9832

agctctcata gttcaatttc tagcgtctcg atatattatg cgcctaatac ggacatccga 60  
 gttaaagtgt atgaccattt gaatttctcg agagcttccg ttgttcaatt acgagcgtct 120  
 ctatatgtga tgcgcctaaa tcggacatcc gagttaaag ttatgtccat ttgaatttct 180  
 cgagagcttc cgttgttaaa ttttgagcgt ctctatatgt gatgggcctg aatcggacat 240  
 ccgagttaaa agttatgtca atttgaattt ctcgagagct tccgttggtg aatttcgaga 300  
 gtctcgatat attatgcgcc taaatcagac atccgagtga aaagttatga ccatttgaat 360  
 ttctcgagag cttccgttg tcaatttcga gcgtctcgat atattatgca cctgaatcgg 420  
 acatccgaat g 431

<210> 9833  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9833

tgtaaaaaaa tgaagcaggt taaaactctt ttcaaagaat aaattttgtt tgtattagaa 60  
 aacccttga acaacttcac attgatttat ttgggtccctt tagaactatg agtttgggtg 120  
 gaaattacta tggttagta atagtagatg attactcaag gttcacttg acttagttnt 180  
 tgaaaaccaa aaatgaagct tttgatgctt ttcgcaaact tacaaggtga ttcaaatga 240

aaaagggtctc aacattgttt caattaaag tgatcatgga ggtgaatttc aaaatgagtc 300  
 ttttgaaaac ttttgtgaag aaaatggaat ttaccataat ttttttgccc caagaacacc 360  
 tcaacataat ggtgtttag agaggaaaaa t 391

<210> 9834  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9834

tcttggtttc agctgctgaa gatgaatccg tggctacttc atgcactcct ctaatgacta 60  
 tagcatcatt tctgccacta aactgttggg agttggaagc catcttctca attaaatttc 120  
 tggcttttagc aggggtcatg tctccaaggg ctctaccact ggtagcatct atcatacttc 180  
 tgtccatgtt actgagtcct tcataaaaaat attggagaag aagcagctct gaaatctgat 240  
 ggtgagggca actggcacat agttttttaa atctctccca atattcatac aggctctctc 300  
 cacagagttg tctaatacct gaaatatctt ttctgatggc catggctctg gaagcaggga 360  
 aattntttta taagaatact ctcttgaggt catcccagct cgtgatggac cttggag 417

<210> 9835  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9835

taatgatgat tcaacccta agcacttatg ggctgaagca gtgaatacta catgttatct 60  
 taaaaacata atttacataa gacctatcct taaaagact ctatatgaat tgtggaaggg 120  
 atgaaaatcc aacatatcat attttcatcc atttgatgc aaatatttta ttctcaccac 180  
 acaggataac ttgggaataa ttgattcaaa aagtgataat gggatatttc ttggatactc 240  
 taaaaattca aaggcattca gagtttataa ctgaggaacc ttggtagttg aagaaactat 300  
 tcatataaga tttagcgaataa ataagtctga caaagattta ttagagctac acgatttgca 360  
 gatntaagac tcgatggtga ctctatagca cgtagcttgt aaagaaag 408

<210> 9836

<211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9836

acctgcggca tgcaagctta tgtntcaaac atntataata gacccccctca gcagcaaaac 60  
 caacaacaac agaataatta tgatctttca agcaacaaat acaatccatg ttggaggaat 120  
 catccaaacc tgtgaaggac aagtcctcca caacaacaac aacttggtccc tccttttcag 180  
 aatgctgctg gcccagcaa gccatatgtt cctccccaat gcagcagtag caacaacaac 240  
 aaagacaaca agcaactgag gtcctcctc aaccttcctt agaagagtta gtgaggcaaa 300  
 taaccatcca gaatatgcaa ttctagcaag agacaagtgc cttcattcag attctgacaa 360  
 atcaaattggg gtagatggct actcagatga atcaagctca gtcccacaat tatgacaaat 420  
 tgctttcaca aactgtgcag aatccgaana atgtgagtgc catcacctt 469

<210> 9837  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9837

agcttcaaga aaaagatggc ctacagcaaac tccttatttc cagaagggaa ttctatcaat 60  
 agacctcaa tctttaatgg agagggttac cattactgga aaacccgaat gcaaattttt 120  
 attgaggcaa tagatctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180  
 acagtggaaa gagtttcaat agatggtagt tcatcaagtg aaagaataac tatagaaaaa 240  
 cctagagata gatggtctga agaggataga aaacgagtac aatacaactt aaaagccaaa 300  
 aatataataa catctgccct gggaatggat gaatatattca gggtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtggaacac tcttcgatta acacatgaag gaactacnga tgttaaaaga 420  
 tctatgataa atgcactaac tcatgag 447

<210> 9838  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 9838

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ctcgagacgc ttgaaattga ataccgaagc tctgagcaaa ttcaaacgac aataactttt 120
tactcggatg tcggattgag tcacgtaata tgtcaagacg ctcgaaatag aataccgaag 180
ctctgagcaa attcaaacga caatacctat tgactcggat gtcggattga gtcacgtaat 240
atctcgagac gctcgaaatt gaataccgaa gctctgagcg aattcaaacg acaataactt 300
attactcgga tgtgcgattg agtcccataa tatgacgaga cactcggaat tgaataccga 360
agttatgagc aaattcaatc gacaattaat ttactcgga tgcggattg agtcacgtaa 420
tatg 424
```

<210> 9839  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9839

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agctntaaca ttcattttacg agcgtctcta tatataacgg gactcaatca gacatccgag 60
taaaaagtaa ttgtcgtttg aatttgctaa gagctgcggc attcaatttc gagtgtctcg 120
atatattacg ggactctatc agacatccga gtaaaaactt attgtcgatt gaatttgctc 180
tgagcttcaa cattcaattt cgagcatccc gatataattac gggactctat cagacatccg 240
agtaaaaagt tattgtcatt tgaatttgct ctgagcgtca acattcaatg tcgagcgtct 300
ngatatatta cgggactcaa tca 323
```

<210> 9840  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 9840

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acatcgagta aaaatgctat taaatttccc tataatagat gattggtaca attcttttct 60
gtacttcaag ttggtaaaaa aaatttagtt actccaatca tttagaatga agttggtcca 120
ccccattttt actcgagcaa gttagacaaa ttcgtatcat aaatatactc acaaaaactaa 180
```

tgtaaaatgt ctattatgta attatctgtt gcatgttata ttcataagt ttgttgagtt 240  
catcttttagt tttgttagct cacaccaata tttatgtcaa ttacatatt gttatatata 300  
ataagtgtgt aagattttat aataaatatc tcaaaaatta tttgtgagtg attaatagtg 360  
caaaaaattt ataacggtaa tgcatgaaaa ttaaattcat taataaattc ttgaatgaaa 420  
atacacaata aaatgaac 438

<210> 9841  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9841

atnctgactc cgatagatat aagattcttg tgggataact cattctccct accattacta 60  
gacctgatat ctctctgct gcgggagtg ctgccaattt atgcagaatc ctcatattgga 120  
ccattggaat gctgacatgc ctattctgag ggatgtatat acagctcctg gactaggggtt 180  
gctgtatgaa aacaatggta ttacgcaact atcatgatat tgtgatgctg attgggctgg 240  
atgtcccatg gataggagaa ctacatcacg ttatagggtc ttactgggtg gaaatctaaa 300  
ctcttgcaaa gcaagaaaca gactattgtc tctcggtcca ccgcacaagc cgacgatcga 360  
tctatggcta tcattacatg tgagctcat 389

<210> 9842  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 9842

agcttgtcgc attgtacgag taccctgaag acttcttcca ggtctgcca ttgaagatgt 60  
caactttcgc tacaaggtea tgccattcgg cctaaaaaat gcaggcacga cataccaacg 120  
actaatggac tgagtcttca aacaagagat cgaatgaaac gtcgaggtat atgtggatga 180  
catggatgtc aagtctggag gatgcatact ggtcttggtta tatccagggt aggcatacag 240  
gaagcttaac acctggaacc cagacgtccc atcgactaac ctgttgatgt tgggcagatg 300  
gtatgtgtct ttagagcatg ctctagacat atcagagtag tcagtgcata ttcgacattt 360  
gctattagcc tatttgacca tgacgatgtt ggcgagccag gtagagaacc taacctctct 420

gatg

424

<210> 9843  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9843

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cggcctagcc ttctcagcta tccaaggtag aaatcttata aaagaggcta tgcgtcctgt 120  
gagtctttgt atctctttga aagtcttcgg actcctcatc tcaatgacga ctggacattt 180  
atctagatta gcttgatgc ctctttggga aagcataaaa ccaaaaaatt ttctcctcc 240  
aatccaaga acacattttt agaggttaag tcgtatgtat gtttttggat ttgtgaaatg 300  
atctcggcta ggctcctaac atgggacttg actccattgg atttgaccac tatctcatca 360  
acgtacacct ctatatttct acgaatttta tctttgaaga tcttatccat gaggcattgg 420  
tacatagctc ccac 434

<210> 9844  
<211> 379  
<212> DNA  
<213> Glycine max  
  
<400> 9844

tcttatccaa ggctcatctt ggtggtgaag ctcttcttt catggcttat tcctagtgg 60  
atggcgccgc ctcttacctc ttctccttg tcttccgctg catctccatg gtggaaaatc 120  
accattaaag gacctcattg aagctcaaag atccagcttc catagaagct ccacaagcaa 180  
gtttccatca tgaatgatgc aatcctaccc cgcaagggca ttggatagaa gactccaagt 240  
agattgggct agagatgcaa gagaaggccc tagggttctc atgagcctta ggatagattt 300  
cgggccccatg ggctaagtat gagccactt atctttgtac atattaaatt aaggtttcat 360  
taattttggg tcttttatt 379

<210> 9845  
<211> 436  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9845

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agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300  
atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcacaaaag 360  
caatccaagt ggagcaacaa ttaaaaagga agggagtggc taagaggagt tttaccaact 420  
ttggttcttc tagttg 436

<210> 9846

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9846

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taaggcttgt aggaattnta ttttgggaca tgattcgagt gaaaggaaaa tccacctagt 120  
atcttggaac accatttggt cagataaaaa taatggtggt ttgggcctgt gcaagaagag 180  
gtatgtaa at cangccttta tgttgagagc taattggcag ttttgtcaaa tggaagctcc 240  
tatttgggct tctattttac gaaacaagta cagatgtggt gcagattcgt tccctacagt 300  
tgatagtaaa agggccggta gcaatatttg gcgtgggatt tgctttacgt gggatttttt 360  
ttttgtaaga atgtggtttg gagggctggg gatggtacta caatgaaatt ttggcgtgat 420  
tgctggatcc ctagaagctt tcctctgatt gat 453

<210> 9847

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9847



ngaagtgggtt aaacttttcta caagatacct gctctgatac catttgttgg atcaagtggc 60  
 ctcggaataa ttaagaaggg gggttgaatt aattattaat gaacctttac taattaaaaa 120  
 tttatccttc ttaatgttac tagattcaat taggctttta ctataatgtt aagaaagtaa 180  
 ataacagaaa aagaactta accaaaagta aaagcgataa ttaaagtgca cagcggaaat 240  
 taaagagtgt agggaagaag aagacaaaca caagaattta tactggttcg gcaacaaccc 300  
 gtgcctacat ccagtcccca agcaaccacc gggtcttgag atttctttca accttgtaaa 360  
 atcctttaca agcaaagatc cacaagggat gtacccttcc ttgttctctt tgaacaacca 420  
 agtggatgta ccctccactt gaact 445

<210> 9848  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9848

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 cttttctgat caggtacatg gacatgagtt aggcacccaa atactttaaa gtaatctact 120  
 ttaggtttga ttccactcca catctcttct ggagttttat ctttcaactgt caatgtagga 180  
 ctctgttga gaacatgaac tgtccatttt gcagctttctg gccaaaaaac ctttgggtact 240  
 tgtttgtcac aaagcatgca ccggaccata ttcataatgg ttcgattttt acactccgct 300  
 acgccgtttt gttgtggagt gtaagatggt gtgagttgcc tgcttatgcc attaatTTTA 360  
 caaaattcat taaactcatt tgaggatgaat tcaccccccc ctatctgtgc gtaaacaaca 420  
 ta 422

<210> 9849  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 9849

tccttaagaa gattcctaaa gaagcttgag cttagctaca catacctctc taatagctaa 60  
 gctcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120

tcaccccatg acaaaaaata tgaaaatata aaaaaatgtc cttactacaa agactactca 180  
 aaatgcccc aataacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc 240  
 cagacgaagg aaatacctat tctaataat ttaacagataa acgggctcat acttagccca 300  
 tgggctcgaa atctacccta aggtcatga gaaccctagg gccttccctt ggatctctag 360  
 ccaatctact tggagtcttc tacccaat 388

<210> 9850  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9850

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 tttcgtaatt ggtattctga ataactgatt gaaatgatta aaacatcctg aaggcttaca 120  
 atgactacta tattttacac aggatactgt agttggattt ttgttggctg gagtgggaaa 180  
 tgttgacata cgtaggaaga caaattacct cattgtggat tcaagtatgc cactgaacta 240  
 tattttactt actattctgt agtctgagta tgtttggat taatccccta aaaactacaa 300  
 tgtttttctt gtgaaattgt acatcatgaa gtgactccct gcctctttta tctaccatcc 360  
 aaattgtgat acccaataaa caatata 387

<210> 9851  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9851

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 attcgggcct ccaccatttc gctctttctt gggctcgtgaa caatctcttt gagtgtgtcc 120  
 cttttgtcca taattaaaac atgttgcgcc tatatcagga caattcgagg agatgtgccc 180  
 tggcttacca catctgtaac aaatgatatg agtggagaaa gtattgggct tgctaccact 240  
 accacctgca aatcccctag caacagtcct ctgattgtca tggcgggttac catattgctt 300  
 aggggggttc gaatatgggt ttcttcaatg ttgaggccca ttctttntgt tcttcattgg 360

acctgtactc caataatagg ccgccctatc tcgggagtct tcatcccaaa tccggcacat 420  
gttaaccaaa agtgggaact gac 443

<210> 9852  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<400> 9852

catgcaagct tgtaggtaaa ctagatgcct tagttatacc tggtaaccca actggccatg 60  
aataaaaaat ctgcacttgt cgccagactc tgtgggtttat gctcatttgt cgaccaccac 120  
acagaccttt gcccttctat gcaacaatct gaagcaattg aacagcctga agcttatgct 180  
gcaaacatct acaacagacc ttctcaacct gagcagcaaa atcaaccaca atagaacaat 240  
tatgacctct acagcaacag gtacaatcat ggggtggagga atcatcctaa ccttagatgg 300  
tcgaatcctt cacaacagcc gcaacaacaa ccttatttttc aaaatgttgc tggcccaagc 360  
agaccatacg ttcgtccacc aatccagcag caacaacagc aacagccgca gaaacagcaa 420  
acagttgatg ctccctccg 438

<210> 9853  
<211> 429  
<212> DNA  
<213> Glycine max  
  
<400> 9853

tgtgttatga aatttatgat tctccaagaa taatttaatt tctcccaatt atgcatgaac 60  
cctacttatg aaatttaggg ataatttaatt ttctttcaat tatgcatcaa cctgatcat 120  
gaaatttagg gatttttttt tctgtctgaa agtatgaaat cttatattga aaagggatc 180  
aattaagttg gcctagaagg aaattttgaa attgctatctt gcaaacccca ttttgcatt 240  
ctcagtccca cttgctttttt tttcccaaaa attattatta aacatgatta aaggattgaa 300  
agttttatacc ctgcaattaa attaatgtga atgctttgaa attattggta gcaataaata 360  
tatatatatg ctacatattt cttttgaaag tgttgaatgc aaatcacaac taaatgtgaa 420  
tattatttta 429

<210> 9854

<211> 424  
 <212> DNA  
 <213> Glycine max

<400> 9854

tataatgtct tgaaaaagat tgattatcca tatgagggtca gcgttatttc taaattctaa 60  
 ttctatcaaa taagccaatt atcattatattt attattgaat ttataattga cattcctctc 120  
 atatgcatct gaaacaaacc ttgatcctag acattccttac tctcatttct ttacttttgt 180  
 gttacgcatt ggaattcatt tttatccaag atttacattc actcaaaatt ttattgggtta 240  
 aatacgtgtg tcaagagggg acataaatag aatttatttc acttaagatt tctcacttat 300  
 ttgacattgt aatcataatt tttttccagc acatattgca cagcatgaaa gatcccagta 360  
 ttgctgcatt ttggttgact acatttcctc agattatggg tggatttacc tatgacgatg 420  
 atgt 424

<210> 9855  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 9855

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 tgaaatacta actaaaaaaaa gaaacttata aaattttgta taagtaatgt acaaattcaa 120  
 aaataattga taaacaaaat catattgaat tcaagtcggt aaagcataga gtatattaaa 180  
 agaaaataaa aaaaacataa tagtaaaaaa tgtatggatt agagatgatt tgcaaaaaat 240  
 gaattctatt ctatgtgaac agtgtgcatg gacagtaata aaaattggaa tactaaaatc 300  
 ctagaattat tctcctttcc gaaaaaaaaat tccctaaact aaaaccttgg tgcttgata 360  
 taagtacttg gccccaaagc ttacaaatct attttaagtc caagcccat 409

<210> 9856  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 9856

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cagcagaaca attatgacct ttccagcaac agataccacc ctggatggag gaatcacccct 120  
aacctcagat ggtccagccc tcagcaacaa tagcagcctg cttcttcctt ccaaaatgct 180  
gctggcccaa gcagaccata cattcctcca ccaatccaac aacagcaaca accccagaaa 240  
cagccaacaa ttgaggcccc tccacaacct tccctogaag aacttgtgag gcaaagtact 300  
atgcagaaca tgcagtttca gcaagagacc agaagcctca ttcagagctt aaccaatcag 360  
atgggaca 368

<210> 9857  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 9857

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ttcaagctca cataaatctt caaccaccca gtcttttggc accagtcgag ttctgagtcc 120  
attctggttt gactcaattc cattttcctc tggaagcttc ttccggttat aggtgtagga 180  
ccaatctact ttggatacat caacacatgc cttatttgct atagattcaa tgcaatggct 240  
gacaaccttt atgtcctcaa ccaagggtaa catatacttt gaagtctgaa gaaggatgat 300  
tgaatccttc caactacgga aaatgctaga gctaataaaa acatcaatct tgtcaatgag 360  
gttccctttc tcaatggcct catgcattcc aagatactct gctgcacatc gag 413

<210> 9858  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 9858

ttgttttcaa ttccgacct ctcgatatat taccggactc atccggactt ccgtgtataa 60  
acttattgtc aattcaattt tctccgagct ttggatcaaa attttgagcg tattgatata 120  
ttacgggact cattcagaca tccgagtaaa aaattattgt cgttagaatt tgatacgagc 180  
ttccggtttc aatttgagc atctctcgct aaattgagc agtctgtcgg gcatccaaga 240  
aaaaatttat tgtcgtttca tatttctaag agtttccggt ttcaatttgg agtgtctcga 300  
tatattacgg gactcaaccg gacatccgtg tataaagtta ttgtcatttc aaattgctca 360

gagcttctag tctcaatatt gagcgtctca atatattacc cgattcaatc ggacatgcga 420

g 421

<210> 9859

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9859

agctctgagc aaattgaaat gacaataact ttatacacgg atgttcgggt gagtcccgtg 60

atatatcgag acgctcaaaa ttgagatccg aagctctgag aaaattgaat cgacaataac 120

tttatacacg gatgtccggt tgagtcctgt aatatatcga gacgctccaa attgaaaacg 180

gaaactctta cgaaattcaa acgacaataa ctttttactc ggatgcccgga cagagtgtgg 240

taatatatcg agggatgctc cacattgata acgagcgctc ggatgaaata caaacgacaa 300

tatcttttca ctcagatgct tgattgagtc ccgttatata tcgagacgct caaatcttag 360

atccgaagct ctgagaanat tgaatagaca ataactttat acacggatgt cggggttgagt 420

cctgatatat atcgagacac t 441

<210> 9860

<211> 428

<212> DNA

<213> Glycine max

<400> 9860

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caagtttagat gagctgaaaa acgaggcttc cattatatattg tattagttgg agatgtattt 120

ttctcttgct ttctttgaca tcatggttca cttaattatt catctagtca gaaaaatcaa 180

atgttggtgt cctattttatt tgccatggat gtacccggat aagcaatacg tgaagatctt 240

aaaagggtat acaaagaatc cacaccgtct ggaagcatct attgtggaaa ggtacattac 300

agaagaagct attgaatttt attcagagta cattgaaaag acaaaatctg ttgggcttcc 360

cgagtctcaa catgacgaaa gagtgggagg taagggttca agaggactgt atgttatcac 420

tccaagta 428

<210> 9861  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 9861

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 tcccaaagta ccaaaatccc tgcggatata tgaagctcat gttggaatta gtggttctga 120  
 gccaaaaata tcctcattca atgatttcac agacaagggt tccccctca tttctttggg 180  
 ttggaatttg taactaatca attatacata tcttccatgt ctatatattg taatgggctc 240  
 cattgaattt ttacttttat tatatgcaca atgcagggtc ttccttacat taaggaagct 300  
 ggatacaatg ccatccagtt gattggaatt gttgaacaca aggattattt tactgttggt 360  
 tacagagtaa gttaaagtt gtaattctta acttattttc tcaactgtaat tatattgtga 420  
 ttgagattct ttagaagttc ttc 443

<210> 9862  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9862

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 agagtgatgt gtttgatgtg ttcaaaaagt tcaaaagggt gatttagaaa caaaataaca 180  
 aacagataaa agtgtaaga acaaacgaag gtggtgagta tgtattagat gtgtttcgaa 240  
 acttctatga ggtagaagtg atagtgcag aaataacatt atcctatact ccacaacaca 300  
 aaggaactat tgagagaaaag tgtaacgacc cgctcgtcg ctacgatatc acttactata 360  
 aaatatgaca tttcaattta gaagtaaaag cctcattaat ttga 404

<210> 9863  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9863

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ccctttggta tgactgaaag tatttgtctg aaagtatttt attatatccc ttaacgttct 120  
atcaacaact tcaaaacaat gtatgagtc tagcagcttc accccaaatt atgagtttag 180  
gcattgagat taactcagct aaaggagtac cttgttttat gttggaagta gaatcttaat 240  
tgacatttat tggaatatga aatctcgaat gggatgcttt tccgcctaga atcaacaaag 300  
catccattcc atcagatgcc acagttaaaa caatttctcc tttagatcta aatgtggcaa 360  
agaaaagctc ttcaaagaag acttatgtgt cctccataa ccataaagaa taaacaatat 420  
tgcattattt aaattttca 439

<210> 9864  
<211> 281  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9864

ngtcaaagct ctatatggat ngaaacaagc tccaagagct tggatgaaa ggctaagctc 60  
attcctagtt cataatggat tctactagagg aataatggac actacactat tcataaaggc 120  
cgaaaaagga aaacttctta ttgttcaaat ctatatagat gacataatct ttggtgcaac 180  
ctcaaaaagg atgtgcaagg atttttctga gctaataaaa ggtgaatttg aaatgagtat 240  
gatgggtgag ctaaatttat tccaaaggct ttaaattatt t 281

<210> 9865  
<211> 245  
<212> DNA  
<213> Glycine max  
<400> 9865

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cttttgttcg gcaatttcag gcgtgtatat atgtgagtcg cccgaatcgg acatccgagt 120  
taaaagtgat gtgcatttaa atatgtcaag agctaccgtg gctcaattgc gagcatctcg 180  
atatgcgatg cgtctgaatt ggagatccct gtaaaaagta ttgaccattt gaattggtcc 240  
agagc 245



<210> 9866  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9866  
  
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 agtcataact attcacacgg atgtccggtt cgggcgctta atatgtcgag aggctcgaaa 120  
 ttgaacaacg gaagctcttg agaaattcaa ctggtataac ttttcacacg gatgtccgat 180  
 tcaggcgaat cacatattga gacgctcaaa aatgaacaac ggaagctcct gagaaaatca 240  
 aaagggcata actttt 255

<210> 9867  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9867  
  
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 ccacaataag gttttaaact tcttgaccat cttgggcttg agatggatct tctgtcatt 120  
 agtcaatttt ctatccataa tatatttaatt tttttagtta tatgatataca atgtaagcct 180  
 ttgatctcat tgattgaaac tccaagctct gacaagtcac actttacaat gttgctttgt 240  
 gatgtctgtg gatggggaag caagcaaggt gatgaaaggt gttcaatatg aagcctgtga 300  
 ttatctcttt aagcctataa ggatgaaaga actaataaac atatg 345

<210> 9868  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9868  
  
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 attgcatcca gcagaggat gtttacctct acttttctaa atgtttccaa gatctccttc 120  
 tctgcctctt ccattttttt gttggaaatt gctcttggag ggaatggaag aaggatatgc 180  
 tgcttctctt tagattcacc tgcataaaaa ttcttaggta acttactctt taaatttttg 240

tcatcatctt tttctggagt agagagaaat tgggcacgtt catttgtgga tgaggaagat 300  
gttgctgggt gaggtccttg aactgcttt cccgacctca atgtaatggc actcatatt 359

<210> 9869  
<211> 369  
<212> DNA  
<213> Glycine max  
  
<400> 9869

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agggtgggact aagactacaa aactctaaca atccaagcaa tgtgggacta agaccacaaa 120  
attctaacaa ttctctcact tgggggtctaa gttctaaatt ctagcaactc cttgtaagcg 180  
atgagttcat cgactcttta cctagtgtag cgccttcac ttcaattatc cttgaaggcc 240  
aaatgaggca atgcaaagcc tcagcttata agttgtaaca gctttagtca acatatctac 300  
tggattctct gatcctaaga tcttcaacaa agataagtct ccatcattta tcaactccct 360  
gataaaatg 369

<210> 9870  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<400> 9870

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agggtgctgcc aatgtgctaa aatccttcac aaatcgtcta taaaaacttg ctaagccatg 120  
aaaactcctc acctcggta cagacttagg tgtatgccat tcttgaatag ccctaacctt 180  
ctcctgatca acttgactc cttttgaact cacaacaaaa ccaagaaaca caacatgggt 240  
agtacaaaag atgcattttt caagattggc atacaattgt tcttttctaa gcgcagtcaa 300  
gacagatttt aaatgatcaa tatgcaaact aagtgaagtg ctcttgataa taatatcatc 360  
taacgtcacc acaacaaact t 381

<210> 9871  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 9871

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aacattaggg atagccaaaa gatcaagagg agttagtggg ttaaaacccat aaacaacttc 120  
aaaaggagaa ctattagtag tgctatgaac aactctattg taagaaaact caacatgggg 180  
taaacaagct ttccaagttt ttaagttctt cctcaaaact gtcctaagca aagttcccaa 240  
tgtcctatta acaacttttg tttgcccatc ggattgtggg tgacaaatgg ttgaaaataa 300  
cattttattg cccaacttgc ccacaaaagt ccttcaaaaa aggcttatga acttagagtc 360  
ctatcactaa caatgatcc 379

<210> 9872

<211> 370

<212> DNA

<213> Glycine max

<400> 9872

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atgagtttat gagcaactca tgattcaaaa gatgtgacat agaccattgc tgctatgtta 120  
agaaatatac taatagttat gttatccttg tcgtgtatgt tgatgacatg ttgattgcag 180  
gatctagtag ggcagaaatt aacaagttga agcagcagtt ggcaaaaaac tttgaaatga 240  
aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcaaaag 300  
gaatcttgaa gctgtctcag gagaaatata tacacaaatt gcttgacagg gtttaccttg 360  
gagattctaa 370

<210> 9873

<211> 287

<212> DNA

<213> Glycine max

<400> 9873

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atatgagaaa atctaattaa tttaatgata ctattcttaa aacatccttc atttaattgc 120  
gattctattt ttaatgactt ttttttttct atgatatgaa gattacataa aggaaagttt 180  
aggaaaataa gattttttta ttgagattat tacaattaaa ttatgttaag tgactttctt 240

aattagtaca aaattaatta tttttactta tatttgaatc tggaagg

287

<210> 9874

<211> 395

<212> DNA

<213> Glycine max

<400> 9874

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aattttatttt atctcaaata tctagacttg tcttcaaaca agtttaaagg ttcaattcct 120  
ccaaaattgg gtgctctaag gagcctcaaa acattgaacc tttccaataa cttgctgggt 180  
ggagagatac caaaggaact tcagggcctt gagagtttac atgattttca aatattcaac 240  
aatcacttga tggaagggtg ttggaccaat ctaagagttt ttgctgctta tgagaataat 300  
ttcgatggaa ggggtccaag taaacttggg ttcatttatg agcttaaaac acttaacctg 360  
cattcaaacc accttgaaag ccctataccg ggaag 395

<210> 9875

<211> 329

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9875

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tactgatata acctatgttg gtcaacaact catccaatat atggctcatc ctacctcagc 120  
tcactcccaa gcgccttttc gtgtcttacg atacctcaaa agctctccat gtttcagaat 180  
atttcttgct gccaacggac ctctacaact caaagctttc aacgactcct actggncctg 240  
ctgtcgggat acgacgcgtt ccatcacagg gtacttcgaa tatctcagaa tcttccatta 300  
tttcttgggc gtcgaaaaaa caacctact 329

<210> 9876

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9876

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 tggagaattg cactaagcaa tcactacgca cggctccaag ctccagggtg gaggacgcat 120  
 gaacgaaaaa gcaattcatg gggctccgaa aaagggttga ggatggagaa ttgcactaag 180  
 caatcactac aaacggctcc aaactcgtgg gtgaaggacg catgaacgaa aacgccattc 240  
 atggggctcc gaaaaagggt tgaggatgga gaattgcact aagcaatcac tacgcatggc 300  
 tccaaactcc tgggtggaag acgcatgaac gaaaatgcaa ttcattggggc tcccaaaaaa 360  
 g 361

<210> 9877  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 9877  
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 gtgaagatgt tcaaagtttg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180  
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca acatccgttg 240  
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300  
 tgtggttcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcacttgatg 360  
 atattgatat tattcg 376

<210> 9878  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9878

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 ctcggtatgc cgattgagtc acgtaatata tcgagacgct cgaaattcaa tacagaagct 180  
 atgagcaaatt tcaaacgaca ataactttta actcagatgt ctgatcgagt ctcgtaatat 240  
 atacagacgc tcgaaattga atacaaaagc tttgagcaaa ttcaaacgac gataactttt 300

aactcaaatg tccgatcgag tcccgcata taacgagatg ctagacatag aatacagaag 360  
 ttgggagcta attctaaaga caat 384

<210> 9879  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 9879

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 gagagagcaa gaaatgaata gcccattggt gatacatgga cggagatgaa aaatatcatg 120  
 aggaaacggt atgtgccggc tagttactca attgacttga aatttaagct ccaaaaacta 180  
 acccaaggca acaagggggt tgaggagtat ttcaaggaaa tggatgtgct catgattcaa 240  
 gcaaatttg aagaagatga ggaggttaact atggctcgat ttcttaattgg ttgactaat 300  
 gatatccgtg atattgttga gctgcacgag tttgttgaaa tggatgattt gcttacaaag 360  
 c 361

<210> 9880  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 9880

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 aagttattgt ccttttgaat tgctaggagc ttctgttttc aatttcgagc gtatcgatat 120  
 attaggggac tcaatcggac atccgagtaa aaaattattg tcgtttgaat ttgatatggg 180  
 cttccgtttt caatttcgag cgtgtcgata tattacaaga cataatcgga gtaccgagta 240  
 agaagttatt gttgtttgca ttaggtacga gcttccgttt tcaattttga gtatctcgat 300  
 atattacggg aatcaatcag acatccgaga aagaagttat tggtgtttgc attttgttcg 360  
 agcttccgtt ttcaatttcg agcgtctc 388

<210> 9881  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 9881

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aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120
tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180
atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggttttcttta 240
gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300
at ttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360
ctctataaac atta 374

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<210> 9882  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 9882

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gctctcctcc ttgagatgag aagctagaac ttagctacac accccctata atagctaagc 120
tcacccccat gacaaaaaac atgaaaatac caaaaaaagt ccttactaca aagactactc 180
aaaatgcctt gaaatacaag gctaaaaccc tatactacta gaatggccaa aatacaaggc 240
ccaaacgaag gaaaaaccta ttctaattt taaaagata agcgggctta tacttagccc 300
atgggctcaa aatctaccct aaggctcatg agaaccctac 340

```

<210> 9883  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 9883

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tctaccccct gatatTTTTT tgtcatttct ccattctctc ttcattgaact tttcacactg 60
caacagtgtg ctccactaga gagacactga atttgggtcc aacaccgcat taaaagtcac 120
cgttgtgact cactgatgca atcctacccc cccaagggca ttggatagaa gactccaaaa 180
atattggacc agagatgcaa gagaaggccc taaggttctc atgagcctta gggtagattt 240
tgggcccacg ggctaagtat gagcccactt gtctttgtac atattagatt aggatttcat 300

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tatttttggg ccttgtatat aaggcttcat aatgtatgta gggtagccct aaaatgaaag 360  
 atttttct 368

<210> 9884  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 9884

tcagttcact gcttcatgta gtgcacaata tgctttcaga gaaaacactc tgccaaaaaa 60  
 gttactatca agcgaaaaag atattatgtc tgatgggtat ggggaatcat aagattcatg 120  
 tttgccctaa tgattgtata ttgtacagac atgagtttga agagatgaac aaatgccctc 180  
 ggtgtggggg atcacgctac aaaatgaaag atggagatga gtgtagtatt gaccaaact 240  
 caaagaaagt tccccagca taggtgatgt ggtatcttct g 281

<210> 9885  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 9885

ttcagtataa ttcagataat atagaattct ctattttgta tcagtttgca ggtgcagcac 60  
 agtctcttgg tgctggtgct atcttgggta acccatggaa catcacagag gttgctgctt 120  
 ctatcggtta tgcgtaggaa atgccacctt atgaaagaga aaaaccacat cagttttaatt 180  
 tcaaacatgt tgaaactcac acgtcacagg aatgggcagc aacttttgtg aagttttaat 240  
 cctataacat agcttgcatt ctgcttctct tagatcaatg ttcttccgca ctttattttt 300  
 cttgtgatat agaacatggc gccttacatg agcatattat atcgaccact aaagctagtt 360  
 tgaaatagag tcaatgggaa aa 382

<210> 9886  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 9886

agcttaacaa aatagaatat ttatgctttt ctggaaacaa cctactgggc caattgccat 60



catcattggt tgggctaact cagcttagtg atttagattg ttcatacaat aaattagttg 120  
gcccaatgcc agacaaaatt agtggacttt ctaatttatg ttctctggat ttgtcaacta 180  
actccatgaa tggaacaatt ccccatgggt gcttttcttt gtcacgttg atacaattat 240  
ctcttcatgg gaatcagctt acaggggtcaa ttgggtgaatt ctcttctttt tccttgcaatt 300  
attgagatct ctcttataac aagctacaag gtaatatccc caactcaatg tttcatctac 360

<210> 9887  
<211> 213  
<212> DNA  
<213> Glycine max

<400> 9887

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aatgtgtgta ccggtgaatg ggagtatgct gatgaaatct tctcataacc acaaatgaga 120  
tattggatgt tagcatttcg tttctataat gaccacttag aggaaacatt gggctctcacc 180  
taaatacaag aaaatcactt caagtgatt aat 213

<210> 9888  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 9888

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ccagagagga cttggattca atcctaagtc tgctggcaga acaaccatga cagaatttgt 180  
tcctgccaaa aacagcacta gagccacgat gtcacaacat cggctctcgac atcatggaac 240  
gcagcagaaa aggagcaaaa gaaagaagtg gaggtgtcac tactgtggca agtatgggtca 300  
cataaagccc ttttgcatac atctacatgg ccatccacat catggaactc aaagtagcaa 360  
cagcagaaaag aagatgatgt gggttccaaa acac 394

<210> 9889  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 9889

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aataacgcaa caaataatca aacattaaac ataattacta ataatatata gatatatata 180  
tcagggtggt acaactctcc taccctttta gaaatttcgt cctcgaaatt taccttactc 240  
aaacaaggat gggtagctt ctgcacatct acttttctaat tcccacatgg catcttctct 300  
tgatgcacct cccagatca ccttgaccaa cggaatctct tccctctta ggtgggttgt 360  
tcgcctatcc t 371

<210> 9890

<211> 387

<212> DNA

<213> Glycine max

<400> 9890

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gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
gccggaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
gtacaatata atttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300  
tttagggttt caaattgtaa aagtgctaag gatatgtggg atacactaca agtaacacat 360  
gaaggcacia cagatgttaa aagatct 387

<210> 9891

<211> 365

<212> DNA

<213> Glycine max

<400> 9891

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gctctagcaa tcagttgcct aatattctaa ttttgaagtt ctttccaggc actgcattca 180  
atgggagtta gatcgtttga ggaacttgct gatgctgac cgaggagaat agagctagt 240

actggtcgaa aatacccatt tggtaaccat attaaagatt ctctactgtc tctacctcca 300  
aaagttgatg tgacgcttgc agagattgaa agccatatac aaggaaattc caagctagta 360  
gtaac 365

<210> 9892  
<211> 372  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9892

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tatctctcat ttccttaaatt ntgatacact tcaaaggctn tgtcaacatg tttgctagtt 180  
gatcttaaga tctacaaaac tcaagctcaa acttctcctt attcacatga tctctcaaaa 240  
agtgaaactt ggtctcaata tgtttacttc tcccatgtgt cactgggtgt tgtgccaagt 300  
caatagttaa cctattatta attaacaatc tcattggctt gaccatcttt caaataagtt 360  
ctttcatcac ag 372

<210> 9893  
<211> 332  
<212> DNA  
<213> Glycine max  
<400> 9893

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agattttaat tctccggttt agtacccaat atgcatccac atcacctaaa aggatttcat 120  
aaaaatggcg cctcttcctg gagttactct tgtttttata ttgtttccta ggcttcaaaa 180  
ctctgccagc agtatcagct gatgttgatt ctgaacctaa cggagacttc aaactgtggt 240  
taacaatact ttgactagaa gattggaaaa aggacaaacc atttgaacct ttcataaaaa 300  
atccagtaca gcttggatca aaccttgaag at 332

<210> 9894  
<211> 410  
<212> DNA

<213> Glycine max

<400> 9894

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tcttctatatt tcagattggg aatgcctcta acagcacctt tgtcaatgat ttctttcatg 120
cctcttatgg gcagatgtcc aaatctttga tgccatattc tgacttcac tcttttgag 180
gatagacatg cggaggagtg actgggttct tgagggtgcc ataggtaaca gttgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagatta cattgaatcc ttcacacac aactgactga tgctgatcaa gattgcagtc 360
agacccttca ccagcagtac tttgtccaga ctaggaagtc catcatgggc 410
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<210> 9895

<211> 388

<212> DNA

<213> Glycine max

<400> 9895

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ggcctttttt accataacga cgttggcgag ccagggtgaa agccgaacct ctttgatgaa 180
gtttgcatgg aggagctggg cgacttcttc ttgacagct ttaagctgct cttctcccat 240
cttccttttc atttggtata taggtttggc ctggggacag atagccaatt tgtggcagat 300
tatgccagga tagatccctg acatgtcaga tgattgcaag gcaaataaat ccacatttct 360
gcattgcaac gtggcaatgc accggtgc 388
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<210> 9896

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9896

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tcctgtcag atacaatact agaaggaatt ccatgcaacc ttattacttc cttgatgtac 120
aactccacta gcttatccat tctatacttc atattcactg ggataaaatg agcagatttg 180
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gtgagtcgat ctactataac ccacacagca tcatgtccac gactagtctt gggtaaacta 240  
gatacaaaat ccatagatat gctctgccat ttccattctg gaatttccaa tggcttcaat 300  
tctcttgatg gtcgctgggtg ctcaacctta tccttttgac atgtcacaca atangctaca 360  
tattcagcta catctttc 378

<210> 9897  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 9897

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taagaactaa tggaatgtcc ttggcataat tgaccacctt ttttgataag ttgtcatact 120  
ccctttgatc atcacattgg ttaaagaaat tcaaattgaa aagttcaagt gcttgattta 180  
aactgaattc tctaagcggg tatacctcat cagctttggt agctttaaga acttgcatat 240  
ctctagttgt tacaatgatt ctactacctg atccaaaatt accaagaggt ccaagtaatt 300  
ttttctagtg atttgaatca ttcacatcat caagaacaat 340

<210> 9898  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 9898

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aggctatcga gaaattcaaa tggacaatac tttgaactcc gacgtcctat tcaggtgcat 120  
aatatatcta tacgctcaaa attttacaat ggaagctctt tggctattca aatggtcata 180  
actcttcact cgaacgtccg attaacgcgc ataatatatc gacacgctcc aaattgaaca 240  
atggaggctc ttgagcaatc caaatggtca taacttgtga ctgggagggc cgattcagggc 300  
gcataatata tcgtgacgca tcgaattgaa caacggaagc tc 342

<210> 9899  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 9899

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ggttggatca aatggagaat agagaccata tgaattgctc aagagcttcc attgttcaat 120  
ttcagagcgtc tagatatata atgcgcctca atcggacctc cgagttaaaa gttttgacca 180  
ttggaaatgc tcaagagctt ccattgttca atttcaagcg ccacgatata ttatgcacct 240  
gaatctgacc tgctagtgc aacttatgac catttgaatt gc 282

<210> 9900

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9900

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aatcctcatc ctatttataa tttcttaagt taccaccgtt tgtctccttt gtatagatcc 180  
tttgttttct cattggcctc ccttactatt ccttccattg tccgtgaggc acttgatcat 240  
cctggctgga gacaggctat ggttgatgag atgcaggctc ttgacgataa tggacttga 300  
gagctggtac ctctatctcc tcggaagacc actgtgggtt gtagatgggt ctacactngt 360  
aaagtggggc ccaat 375

<210> 9901

<211> 381

<212> DNA

<213> Glycine max

<400> 9901

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acaacttccg tttgcccata ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120  
cccaacttgc tccacaaagt cctccaaaaa tgcaaatcat caagcctagg tataggatgc 180  
ctatatttaa tggatggtt attaagggtc ctacaatcag aacacatgcg ccatgtccca 240  
tccttttttag ggacccaaat cactgggaca gcacaaggac tcgtactatc tcttacccaa 300

cctttgctaa tgagttcatc cacttgtctt tgaatctcta tgcgttcttg tgaattactt 360  
ctataagctg gcctattggg c 381

<210> 9902  
<211> 352  
<212> DNA  
<213> Glycine max  
<400> 9902

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atcgagacgc tcgaaattga atgttgaatc tatgagccaa ttcaaacgac aataactttt 120  
tactcggatg tctgattgag tcccgttaata taacgagact ctcaaaattg aatgttgaag 180  
ctctgagcta attcaaacga cgataacttt ctactcggat gtctgattga gtcctgtcat 240  
acatcgagac gctcgaaatt gaatggtgaa gctctgagcc aattcatacy acaataactt 300  
tttactcgga tgtctgattg actctcgtca catatcgaga cgctcgaaaa tg 352

<210> 9903  
<211> 363  
<212> DNA  
<213> Glycine max  
<400> 9903

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taaaaagtta ttgtcgtttg aatttgctca gagcttcaac atttaatttc gagcgtctcg 120  
atatattacg agactatatc agacatctga gtaaaaagtt attgtcgttt gaattcgctc 180  
agaggttcaa cattcaattt cgagcgtctc gatataattac gggcctcaat catacatccg 240  
agtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt tcgagcgtgt 300  
cgatatatta cgggcgtcaa tcatacatc cgagtaaaaa gttattgtcg tttgaattgg 360  
ctc 363

<210> 9904  
<211> 310  
<212> DNA  
<213> Glycine max  
<400> 9904

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gagtaccata aagtgtttgt cagaggaaaa tgtgttagat tctccctgc tgtaatcaac 120  
aaatacctgg gcagaccaac tgaaggagtg gtggatattg atgtttctga gcatcagatt 180  
gccaaaggaaa tcaactgccaa acgagtccag cattggccaa agaaagggaa gctttctgca 240  
cggaagctaa gtgtgaagta tgcaatcctg cacaagattg ttgctgcaaa ctgggtaccc 300  
accaatcaca 310

<210> 9905  
<211> 370  
<212> DNA  
<213> Glycine max  
<400> 9905

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cttactgggt tagcccatc ctctaaatct atccaatgca tgcattgtga tgggctaata 120  
ccaggaatgt ctgccagggt ccagcctata gccttcttat gcttcttgag aactgataac 180  
aacttctcct cttgctcatc agtaaagaag gcagatataa ttactggaaa acttttgctc 240  
tcatctaagt aaacatattt taaatttgat ggcaaaggct tcaattgtgg tgtggatggt 300  
tggatagtgg tagaaagaga tggtttctca gcctgtacct cataaagaaa gtcagaggta 360  
tgtgtacttt 370

<210> 9906  
<211> 374  
<212> DNA  
<213> Glycine max  
<400> 9906

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gggtatgaac aattttatga caaggagaat aatggtggtg gacaccaagt tccatccaat 120  
aacaacatg gccgccacca attgcttgaa gaactgcaca ccaccacctc caccatataa 180  
tgcaccctt gaatttggtt ctggcaatag aagtctacaa agggctggtt ctgctaatag 240  
acctgtgagg agaccacca aaaggccagc cacagcatgt gtgtgaaaca caccaagggt 300  
gtcatctacc tgaacataat atttttcaca aaattatggt aagtacaaat tataactaagt 360



aaaaaatcaa gagt

374

<210> 9907

<211> 332

<212> DNA

<213> Glycine max

<400> 9907

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gtgatgaaaa aggttcggag gacggaggag gcgagtttgg acgacgccgt ttggaggctg 120

ggggcgagga ggtagtggaa gtagaggag cgggcttcgg ggggcgcgtg gcaggcgcac 180

agccagaaga ggcgcacgtt gaagacgagg ttgaagaagg tggagaggga ttcgggtgtg 240

tgcgagtcca tgatccatgc gatgggctcg ggattcagtt tctggagctg ggaacggggg 300

caggtgctat cgtgcgccgt gggggagtgga ga 332

<210> 9908

<211> 344

<212> DNA

<213> Glycine max

<400> 9908

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aacataaaaa gggaaaagggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120

tttctatgct tgaaacaaaa ttgattgggc ttgaatgttt gaaaagcatg tatgaaaatg 180

atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcaaaaaat ggtttcttta 240

aacatgaagg ctttgttttt taaaaaaca aaatgagtggt gcctatatgt tttattaaaa 300

aaatgtttgt ttttaaacca tcaaggacgt ttaaggggca tttt 344

<210> 9909

<211> 385

<212> DNA

<213> Glycine max

<400> 9909

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ccagaggtct tgtttacttg catgaggaat gttgcaccca aatcatccat tgcgacataa 120

agccacaaaa tatacttttg gatgatcaat ataatgctag aatttcagat tttgggtag 180  
 caaagctgtt attgatcaat caaagccgca ctgaaactgg aattagagga acaaaaggg 240  
 atgttgacc agattgggtt agaagtgcac caatcactgc taagggtgac acttatagtt 300  
 ttggtgtgtt gttactagag atcatttggt gtagaaagaa ttagaaaaag gagcttgta 360  
 atgaagaaaa gggatattga ctgat 385

<210> 9910  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9910

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 ttactccgat gtctgattga gtcccgtaac atatcgagac gctcgaaatc gaatgtagaa 180  
 actgtgagcc aattcaaacg ataataactt ttttcacgga tgtctgattg agtcccgtaa 240  
 catatcgaga ctctccaaat tgaatgtcga acctctgagc aaattcaaac gacaataact 300  
 ttttactcgg atgtctgatt gagtccccga acatctcgag acgcttgaaa ttgaatgttg 360  
 aatct 365

<210> 9911  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <400> 9911

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 tattacggga cataatcgga catcggaata aaaagttatt gtaatttgaa ttgctcaga 180  
 gcttctgttt tcaatttcga gcgtctcgat atattatggg actcaaccag acatccaagg 240  
 gaaaagttat tatcatttga attggcttag ggcttgcgtt ttcaatttcg agcgtgtcga 300  
 tatattatgg gacttaaccg gacatccaag taaaaattta ttatcgtttg aatttgctct 360  
 gagcttcttt tttcaatttc gagcgtctcg aaatat 396

<210> 9912  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 9912

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 tcttttcata aaatgctttg tgtaatcgat tacatggcta tggtaatcga ttatcactga 180  
 caagttctga ataaaaagtc aagagatgta actcttcaaa tggttttctc aaagattttc 240  
 tcacggatat aactcttcca atggttttct tgaccagata tgaaaagtct ataaaaagcaa 300  
 gaccttgact tgcatttcaa taactctgtt agaacaactt ttagaatatc ttgaacaac 359

<210> 9913  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 9913

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 tttctggctt cagcaggagt catgtctgca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aaatgttgga gaagaagctg ttctgaaatc 240  
 tgatggtgag ggcaactggc acatagtttc ttaaatoget ccagtactc atacaggctc 300  
 tctccactga gttgtctaatt acctgagata tctttcctga tggctgtggg cctggaa 357

<210> 9914  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9914

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taagaagaga attgattgct ccatatactc caaagaaaaa tggagtggcc gagaggaaaa 180  
acagaattgt ggttgagatg gcaaggagta tgatcaaagc tagaggtgtg ccaaacagat 240  
tctgggatga agctgtagca actgcagtgt acattttcaa tgtttctcat accaaagctg 300  
tcatgaacat gacaccactt gaagcttggga gaagaaagaa attgtctgta agtcatttga 360  
gaatttttgg ttgtacaaca tatgcattag ttgatttatg gactaagttg gatgataaat 420  
ctatcanatg tgtatttta 438

<210> 9915  
<211> 417  
<212> DNA  
<213> Glycine max  
<400> 9915

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ctatcagata ctatgctaca tggcacacca tgtaatatga caatctcact tatatacagg 120  
gaggtcaact caacttctcc aaggaaaata tgatattaat gggaatgaag tgagcagact 180  
tagtcattct atcaacaata acccagatag aatctaaacc tctacgggtgt ctatgtagtc 240  
ctaccacaca atccatggaa atactatccc acttccactg cgtatctcta gggttataac 300  
atcctgaagg tcttgatggt gatctatact tctgacagac tacgcatgat agacaaaaca 360  
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<210> 9916  
<211> 377  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9916

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ttggacatct gttgagtatg taaacaactg tgtagactgc ttcagctaag aatgtgttag 180  
atagtctctt ctctttgagc atcgatctag ccattttcgt aactgtgcga ttctttctct 240  
cggacactcc attttggtga ggagaatatg caactgtaag ttgccgctca atgccttcat 300  
ccttacaaaa tctttcanac tcgcgagagg tgtactcttt gccgcgatta cttgttagta 360

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377

<210> 9917

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9917

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ccaaatatca cgagcagttt ctttgttcaa cgatagtctc caagattgtg cgatcaatgg 120

cttggaagaa atagttcttg gctttaacat ctttgagttt gctatcatca gctgctttac 180

tttgctcggc agtggaattg gccggagcta ccacgattcc atcttcaata atgctccaat 240

actccttaga acgaaggaga ttctccatca acatggacca atgatcatc cgaccattca 300

aattgggaat agaggggtgc agacaggatg 330

<210> 9918

<211> 334

<212> DNA

<213> Glycine max

<400> 9918

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taaaaagggg aaaggggaatg tagtggctga tgcactgtct aggagacatg ctttacttgc 120

tatgcttgaa actaaactgt ttggtctcga gtctttgaaa gacatgtatg tgcattgatg 180

ggactttgct gaaatTTTTG ctgcatgtga aaagttttct gaaaatgggt actataggca 240

taatggattc ttgttttagag caaataaatt gtgtgtgcct aagtgttcca ttagagagtt 300

gcttgtgagt gaatcacatg aggggggggg gggg 334

<210> 9919

<211> 388

<212> DNA

<213> Glycine max

<400> 9919

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 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaacc 240  
 tgatggtgag ggcaactggc acatagtttc ttaaatecgt cacagtactc atacaagctc 300  
 tctccattga gttgtctaata acctgagata tctttctga tggctgtggt cctggaagca 360  
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<210> 9920  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 9920

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 gacctttgcc cttccatgta gcaacctgga gcaattgagc agcctgaagc ttatgctgca 180  
 aatatttaca atagacctcc tcaacctcag cagcaaaatc aaccacagca gaacaattat 240  
 gacctttcca gcaacagata caacctgga tggaggaatc accctaacct cagatgggtcc 300  
 agccctcagc aacaacagca gcctgtcct tccttccaaa atgctgctgg cccaagcaga 360  
 ccatacatc ctccaccaat ccaacaacag caacaacccc agaaac 406

<210> 9921  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 9921

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 ttgtttctca cgaaacttat tcaccattgg aaacaaagag gatttacctt tctccaacta 180  
 tgaccaagaa attcattcac agctatagca ttctgtccat acatcagtg tgaggaccag 240  
 taaccccaaca gaaaccattt gtgcacattc tctggcacat agaacaaaac tatcataata 300  
 aaggttcatt acagtaacca actttgaagt tacatgtacc atttcttacc tcgggaaatc 360

acaaa

365

<210> 9922  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9922

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tagtgttggt ggggtatgta gagtagggta aggtctgaaa atccctttcc tgagcatctt 180  
cacatgaggg aacatgggtc ctcaccaact caatcagtg tgctgcaagt atagaaaaat 240  
atgggacaaa ccttttgtaa aagtttgta agtcatggaa gcccctaatt tcccttatac 300  
ttggtggagt gggccactca aaaatgattt ttattctctt aggatccgtg gaaaccctt 360  
gatcactatt taaaaaatta aggaaagtaa tgcaataaaa catacattnt tctgtatttt 420  
catgtntatt actcct 436

<210> 9923  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 9923

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cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tcttttgag 180  
gatagacatg tggaggagta gctggtttct tgagggtgcc ataggtaaca gctgtccttt 240  
gatctgctgc ccttcattag aacttcactt ttctcatttg tcaactaagca ttctgacttt 300  
gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gttagcagtc 360  
agtccttca ccaacagtac t 381

<210> 9924  
<211> 436  
<212> DNA

<213> Glycine max

<400> 9924

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cccgctccagg tagtcccgaa gaagactggc ctcacagtga tcagaaatga gaaggaggag 120  
ttgattccta ctcgagtgc gaacagttgg agagtctgca ttgactatag gaggtgaac 180  
caggttacca aaaaggacca ttttccctg ccattcattg accagatgct tgaacgcctg 240  
gcaggtaaat cccactactg tttccttgat ggtttttctg gttatatgca aattactatt 300  
gctcctgagg atcaggaaaa gaccacattc acctgccctc tcggcacttt tgcttatagg 360  
aggatgcctt tcggcctgtg caatgccctc ggtatcttcc agcagtgcac gattagtatt 420  
ttcagtggat ttttag 436

<210> 9925

<211> 419

<212> DNA

<213> Glycine max

<400> 9925

tcaagaatta tggcctcatc aaactacttg tttccctggg aaattctata aatagacctc 60  
ccgtctttaa tggagtgggt taccactact ggaaaaccgc catgcaaacc tttatagagg 120  
caatagattt aaatatttgg gaagccatag aacaaggacc ttatgttccc tctataatag 180  
ccggaagtgc aacaatagaa aaacctagag cagattggac tgaggaagaa agaagattag 240  
cacaatataa tttaaaggcc aaaaatatta ttacatctgc cttaggaata gatgaatact 300  
ttagggtttc aaattgtaaa agtgctaagg atatgtggga tacactacaa gtaacacatg 360  
aaggcacaaa agatgttaat agatctagga taaacacttt aactcgtgaa tatgaactt 419

<210> 9926

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9926

tcttagttnt agatgatgca gatgattttt gtttctacct catgcactcc tctaagtact 60  
atggcatcat ttctggcgct aaactgctgg gagttggaag ccattctctc aatcaagttt 120



ctgggttcag caggagtcac gtctccaagg gctccaccac tggcagcatc tatcatactt 180  
ctctccatat tattgagtcc ttcattaaaa tattggagaa gaagctgctc cgaaatctga 240  
tggtgagggc aactggcaca tagtttttta aatctctccc agtattcata taggctctct 300  
ccactgagtt gtctaatacc tgagatatcc ttctgatgg ccgtggctct ggaagcangg 360  
aaaatgtttt ctaagaatac tctct 385

<210> 9927  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 9927

agcttcctta agaagatcct aaagtagctt gagcttagct acacatacct ctctaatagc 60  
taagctcacc tccttgagat gagaagctag agcttagcta cacacccta taatagctaa 120  
gctcaccccc atgacaaaaa acatgaaaat acaaaaaaat gtccttacta caaagactac 180  
tcaaaatgcc ccaaaataca aggctaaaac cctatactac tagaatggcc aaaatacaag 240  
gccagacga aggaaatacc tattctaata ttacaaaaga taagcgggct catacttagc 300  
ccatgggctc gaaatctacc ctaaggctca tgagaacctt agggccttcc cttggatctc 360  
tagccaatct acttgagtc ttct 384

<210> 9928  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 9928

cgagaatgga gaattgcact aagcaatcac tacgcattgc ttctaactcg aaggtggagg 60  
acacatgaac gaaaacacaa ttcatggggc tccgaaaaag ggggttgagaa tggagaatta 120  
cactaagcaa tcaactacga tagctccaaa ctggaagggtg gaggacacat gaaagataac 180  
gcaattcatg gggctccgaa aagattgaga atggagaatt gcactacgca atcactacgc 240  
atagctccaa acgcgaagggt ggaggacaca tgaatgaaaa cgcaattcat ggggctccga 300  
aaagattgag aatggagaat tgcactaagc aatcactacg catagctcca aactcaaagg 360  
tggaggacac atgaacataa cgcaattcat ggggctcccg aaagattgag aatggagagt 420

ggcactaagc aatcacta

438

<210> 9929

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9929

tccncataac ccttatagaa agtctcttca atgaaattaa ctgtatagta catgatcgnt 60  
cactcattaa gcgagaagta caaaataaat cacattgatt ttttgttcaa aagtaccaag 120  
taaaattttc ggcctttcct tgttctctgt ccttatctcg ggtataaggt tttattcaat 180  
agagaaccct ttcttctgtg cctatacgaa ttgatattat tccattccaa tttctattgg 240  
taactcacia gaaaaaactc aaattgacaa attagagcga gctcatccat gcagtcatgc 300  
aatcaagca tcttcggcta taatggaaaa ctatctgcc gaagagccca ttacaaccaa 360  
ttgagttaac aaccaaaaaa ataaaacttg agctaaaaac caataaaca atacactgca 420  
agcagttacc gaaatcacc 439

<210> 9930

<211> 418

<212> DNA

<213> Glycine max

<400> 9930

aaactcagct atgaggtgct tgactcctag cctcgttgga agttttatat tcccagagctt 60  
tcacttgggt gtcgttcttg gtgacaattg catcagggag gccatacctt catatgaggt 120  
gttacgaggt aaacttcgcc acctcgttgg ctatgatttc tcatagtgggt cttacctcaa 180  
tctacttgggt gaagtagttg atagcgacta gtaaatattt gattgctcct agggcttttg 240  
gctatagtcc cattatgtcc attccacaca tggcaaagag ccaaggggag ctttaagctgt 300  
ggagattgtc aggaaggggtg cgtggaatgc ttgtaaactc ttagcatcgt ctacatttct 360  
ttgtgaaatc aaggggtgtcc atcctgagtg tcggccaata gtagctggca cacaccac 418

<210> 9931

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9931

tctaattgtct ctccaccaat gagaataggc ctttctttct ctattatatt gaaattctga 60  
ccagccacca tatttagagg ttaaaactct aacctatagc tgatgctgat cagatgcaaa 120  
agcccataac catctacca acaaagctaa gttgaatttg gagatattct ttatccccag 180  
tcccccatca gacttaggca aacaaatatc atcccatttc acccaaggga tttttttatg 240  
atcaatgtct ccacccaca gaaaattcct ttgaagggat atcagcttat tgacaacctt 300  
ttgaggtatt ttaaagaaag aaaggagata aattgggagg gcattgagga cagaatntat 360  
cagagtaatc ttccccgcca tggatatatt tttctgagcc catntggcta atcttgattt 420  
g 421

<210> 9932

<211> 384

<212> DNA

<213> Glycine max

<400> 9932

ggatcttaag caccgcggct gcagctgaag caactagatg cattgtttat ttgtaaccc 60  
agttggcctt gaatcagaaa tctataacctg tcgcaagagt ctgtgggtta tgctcctctg 120  
ctgaccacca tacagacctt tgcccttcca tgcagcaacc tggagcaatt aagcagccta 180  
aagcttatgc tgcaaacatt tacaatagac ctctcaacc tcagcaacaa aatcaaccac 240  
agcaaaacaa ttatgacctc tccagcaaca gatacaatcc tggatggagg aatcaccccta 300  
atctcagatg gtctagccct caacaacaac aacagcagcc tgctcctttc ttttccaaat 360  
gtgttgcccc aagcagacca taca 384

<210> 9933

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9933

ccggatcctt aagcacctgc ggctgcagct tgatgcaaca ttgnagaggt tattatcatc 60

gagatgatgc gctccatgag aggttggatc aaatggagaa tagagatcat aatgaagaag 120  
aaaggaggag aagaggggaat gatggtgttc ctagacaaaa ccgaattgat ggtattaaac 180  
tcaacattcc tccatttaaa ggaaagaatg atccggaggc ctacttggag tgggagatga 240  
aaatagagca tgtttttctca tgcaacaact atgaggagga ccaaaagggtg aagcttgccg 300  
ccacggaggtt ttccgactat gctcttgtgt ggtggaacaa gctacaaaag gagagagcaa 360  
gaaatgaaga gccaatgggt gatacatgga cggagatgaa aaagatcatg aagaagcgggt 420  
atgtgccggc taagtactca agggacttga aattcaag 458

<210> 9934  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 9934

tccctcatca tgaaattttc tttcttgaaa catatttggt gtatcaccat tccacaactt 60  
tttcagatca tcaatcaaag gttgtaaata aacatcaata ccaattgttg gattaaatgg 120  
gttaggtacg acacaactca caaacatata agtttttagtc atacatattt ctagaggaag 180  
attgtatggg gtaacaatga ttggccaata agaataagggt gaagacgatg cttaaataata 240  
tgggttaaata ccatttgtgc ataaaccaag tcgcacattt tgcgtatcaa tagaaaaatc 300  
tggatgtacc cgttcaaagt gcttccagac ttcatagtta gagggatgac ttaacatgcc 360  
tgaagatctt ctatttctcat agtgctatgt catttgcgtt acagtttgca tgggtgcaaa 420  
ta 422

<210> 9935  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9935

agctttctaag gttgataggg caattgtgct tggnttcttg gatgtccaag ataccagtga 60  
ttntccaagg aattgacaag caccactgggt gccttttctt tctacttaac caccagcaaa 120  
atcaatatca caatatccta caaaattaaa ctgagaccct tttcttatag gccatgatta 180  
ctagttccaa tatgatctct taaaattctt ttaatttcag taacatgaca aatttttggg 240

caagattgaa atttttcaca aagacaaaca acaaacacaa tatctggtct actggcaatt 300  
 aaatataata aggaaccaat catacctcta tacttatntt ttgaagtatc attacctttc 360  
 tcacctcat caatgaccat g 381

<210> 9936  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9936

taagctcctt caactgcaca aggctcttaa tatttgtgag tacccttatg gaaccttcac 60  
 ccgatgaaga cactaacaaa aacttatctt ctcttttttg gacaaagtat gacaagttgg 120  
 gggcaagtaa attttcttcc catcagacct tggatgcaac tgtgatcgta tccccatctc 180  
 agctagatct tgacgagtat tcaagccgtc cttcatcttg tcttgaatgt taaggagcgt 240  
 cccaatcaca ctgtcacata catttttctc cacatgcata gcatcaatac aatgtctaac 300  
 gtctaaatca gaccaatagg gaagatcaaa gaaaatggac atcttcttcc atatgcaagt 360  
 catactttta tccttctttt gggctcttcc aaatacagta ttaanggtgt gaaccactg 420  
 gtatacct 428

<210> 9937  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <400> 9937

tgtcgggttc agttataatt aagcgctcgc gttatcttat ggactgagcg aaaagggtca 60  
 cgtcatcaaa tactacgcat cttttaaaagc acacagcgag gatcggaacc tcaaccctac 120  
 gttcttttaa aagactgtga ggagaaaatc acagaggaca ggaatccctg ggggaaacca 180  
 agaggaacac acaaaaataa gaacatgccg caacttctt aattgcccta gatcttaagc 240  
 gtaatatcgc ttgacaacgt cggagttcac gggatgaagg agctcctcat catccatgtt 300  
 ggcgagcact acggccctc cggagaaagc tctttttacg acgaaaggcc cttcatagtt 360  
 cagggtccac tttccctat tgtctttgag ggcttgggag actatcttcg gcaccaagtc 420

accttcgctg aacctg

436

<210> 9938

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9938

agctgtcaca tggatgnccg anctttttct tattatatcg agacgctcga aatcgaacaa 60  
cggaagctct cgataaattc gaatgggtcat aacatttcac tcggatgtcc gattcgggga 120  
cataatatat cgagacactc gaaattgaac aacggaagct ctcatgatat tcgaatgctc 180  
ataacatttc acacggatgt ccgattcggg gacataactc atctagactc tcgaaattga 240  
acaacggatg ctctcgagaa attcgaatgg tcataagatt tcacacgaat gttcgattcg 300  
gggacataat atatcgatac gctcgacatt gaacaaccga agctctctag aaattcgaat 360  
ggtcataaca tttcac 376

<210> 9939

<211> 339

<212> DNA

<213> Glycine max

<400> 9939

agcttatacgt gacatctgaa ctgatgtat gtcatgtctc catgtgggggt tagctgaaac 60  
atggatgcta ggggtggcaag cacattaccc atctgatttt cctctctagg aatgtggtgg 120  
aaagagacct catcaagaac tcaatcagtt tcttgatgta ggctgatag ggtatcaact 180  
tgtgatccct atgttcccat tctccctca gctggcgaat taccaaggct gagtctctgt 240  
acactttaag caatttgaca ttaaagtc aa ttgccacttg gattccgagg gcacatgcct 300  
catactcagc catattattc gtgcaatcga agcccaatc 339

<210> 9940

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9940

tctagaagtt ggaatcttca ttttgatgaa attatattat attttggatt cataaagaac 60  
gaagatgaac cttgtgtcta caagaagggt agggggagta ggggtgttca tgggtgtggtt 120  
tggttcgggt tttaggcaaa aagtcattcca aaccaacat aaaataaaga tgtgttttgg 180  
tttggctcag tttaaatata acatcaaatac taaacaaaac caaaccaatac atatttcagt 240  
tttgoggttt ttttattttt gtaatctatt atcctaattt aaatctgtca actaaactta 300  
cataattatt atatatgcta tataatttta aaaatgaaat ttatttttat taaattttgt 360  
ttaaatggtt ttaactaaaa attatcttca cttctattta gcattgatan taaaataatt 420  
taccaactct ttntgtaaca t 441

<210> 9941  
<211> 422  
<212> DNA  
<213> Glycine max  
<400> 9941

tgatgccaaa tggcccatgc tttacagcat caacattgct ttattgtgag cagaactctt 60  
cctcagcttc tgaagccttt gtagtcttat ttatttctga gtttgaacac cactctcctt 120  
ggaccaaccc attagatgat cggttaagaa tcaaatcatc aattttctcc agaaccacat 180  
caccttcgcc aaatgggcgc gcaaatgcgg ctccagtttc cagcattgta tcatagtgtg 240  
acatatcaag caattgggat tcagatggat cagtgtccca gaggataagc cacattgctg 300  
aagaacatta gtagttttct tggtaaattg tcccatcctc taacacatta ctccataaag 360  
gatcttgtaa gaatcatcca gggatgaacct aataaatgaa agacaagaga aactaataac 420  
ta 422

<210> 9942  
<211> 435  
<212> DNA  
<213> Glycine max  
<400> 9942

ttttattgta atcttgaaat tcaggacaac actctgattt ttgaaatttt cgggataaaa 60  
atggtcattg accagtcctt tttccatgac ttaaccaaatac tacctagtga cgggtgtacca 120  
tttgaaggta cactgaatga cgactggaaa tttgatttct ctgcccatga tgcccgcag 180

ttgggtttgca ccaacaatgc ggatatgacc ggacgtcttc ttgccgggtc attggctttt 240  
gaaagccgca tccttacta ttttaattgtg cgtattttgc ttccacgggc ttccaacctt 300  
gcccaggttt ctgaggaaga tctaattatc atgtgggcct ttcatacagg gcgtcaactt 360  
gactgggcac acttagtcag atatgcatg cataaggcat tgtgattaca tgctccacta 420  
ccatatccac agctt 435

<210> 9943  
<211> 425  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9943

agctntatct ttttaagatct ttatgtgcga ttntcatgaa aatgatagat ctcatccagc 60  
gcaagttgct gcagcccaga tacgcacact gctatataaa catgaaggct gcacgagttc 120  
tgtaccaagt cccgggattga agagttatct tgtgagtttt gggacttgag tgttttgtga 180  
gccaccttga tgtcacccta acatcaagtg ttggacctga gtgtgtagag ttgatctcta 240  
ttgttcagag agcaatctct ggtgtgtatt tgatttaact gtaaacacgg gagagtgatt 300  
gatagggagt gagaggggtt ctcatatcta agagtggctc ttaggtagag gttgcacggg 360  
tagtggtag gtgagaagggt tgtaaacagt ggcttgtaga tcttctaact aacactatct 420  
tagtg 425

<210> 9944  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 9944

agcttctata gaagggttct tcctatttnc tctacaattg catcacctct caatgagttg 60  
gtgaagaaga atgtggcatt tacctgnggt gaaaaacaag agcaagcccc tgctttgctt 120  
aaagaaaagc ttactaaggc acctattcta gctcttctg acttttctaa aacttttgag 180  
ctagaatgtg atgcctctag agtgggagtt ggagctatat tgttacaagg tgggcaccct 240  
attgcttatt ttagtgaaaa acttcatagt gccactctca actacccac ttatgataaa 300



gagctntatg ccttaataag agccctccaa acttggaac attaccttgt ttccattgga 360  
attgtcattc atagtgatca tcaatcactt aagtacatta 400

<210> 9945  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9945

agcttcagat tgggatccat aggactatct ttatgtctac aatnctgcat gcctgtctcc 60  
tccaaaatgt cgagggcgta cttcctttga gagatcacia taccatctcc tgactgagcc 120  
acctcaatac caaggaagta cttcaaatac cctaagtctt tgggtctggaa atgactaaat 180  
aagtgtctct ttagctgaat aatcttagaa gcattcattcc ctgtaatcac tatatcatca 240  
acatatata tcaagtaaac acattttcca ggggatgaat gacaataaat aacagaatga 300  
tcagcctcac tacgtttcaa cccaaaaagt tgaacaatat gact 344

<210> 9946  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 9946

agcttcaaga aaaatggctc tagtttactc tttatttcca gaaggaaatt ctatcaatag 60  
acctccaatc tttaatggag aggggttacca ctactggaaa acccgaatgc aaatttttat 120  
tgaggcaata gacttaagta tttgggaagc catagaaata gggccatata taccaccac 180  
agtagaaaga attacaatag atggtagcac atcaagtga agcataacaa tagaaaaacc 240  
tagagataga tgggtctgaag aggatagaag acgagtacaa tacaatctat aagccaaaaa 300  
cataataaca tctgccctgn gaatggatga atatttcang gtttcaaatt gtaagagtgc 360  
taatgaaatg tgggacactc tancantaac acatgaagga actacacatg ttaaaagatc 420  
tangataaac aca 433

<210> 9947  
<211> 401  
<212> DNA

<213> Glycine max

<400> 9947

agctcgcaat catttggtat aaaaatcacc ttgtcttggtg gctctacaca agggtgactg 60  
caaccttcta aaatagtatc tccttcatcc tattaataatc aaaatgacaa tgttaaatgc 120  
tattcgtaaa aagatccctc caaccaaaac aagggataaa cagagaagga aggtaaatgc 180  
tagaagaaaa gaatgtagta attgtgaaaa caacaaatta agtaccaatg aagtgatgtc 240  
atgccttggtg tagggagtag gacaactaga agccaaatca acaaactctca actatagatt 300  
cctatccatg tacattctct ataaaacatt catgggttagt gtgggttctac taaattgtgc 360  
atgacaagag tatattcatt agacatctaa atggaagtta t 401

<210> 9948

<211> 338

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9948

tccgttgctc aattacaagc gtctcganat attttgttct tgaataggac ctccgagggg 60  
caaggatatga ccatgngaatt ttctcgagag ctcccgatgt tcaattgcga gcgtctccat 120  
atattatgcg ctagtatcgg acctccgagt gaaaagttag gaccatttga attgctgaag 180  
aacttccatt gtacagttcg agcgacacga tattttacgc gatcgaaacg gacctctgtg 240  
tgacaagata tgaccatttg aatatctcga gagcttccgt ggttcaattt cgagcggctc 300  
gatactttat gcggctgaat ctgaccttcg agttaaaa 338

<210> 9949

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9949

agcttgtaat tgagcaacgg aagctttcga gtantattta aattgtcatc acttttcact 60  
cggaagtccg attcatgcgc atcacatata gagacgctcg aaattgaaca acggaagctc 120  
tcgagaaatt caaatgggtc taacttgtca ctccggaggtc cgattcaagc gcataatata 180

tcgagacgct tgtaattgag caacagacgc tttctagaaa ttcacagggga catcgctttt 240  
 cactcggatg tccgattcag ggcgcatcaca tatagagaca ctcgaaattg aacagcggaa 300  
 gctctcgaga tattcaaattg gtcataac 328

<210> 9950  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9950

tgttagtgtg tgtttaaatg tctaataata aaganatttt atgtaataat gtttctttga 60  
 agaaaatttt atcagtgaat ataaaatatt ttgaatatga atttttagt atttttttta 120  
 ttagattagg ttggtgttaa tgatttatta gtgtgttaat aattcatgaa cgtttcaact 180  
 ttcatttaaa aaaattagta gatcatattt atttgaagaa agtattttga gtatgaaatt 240  
 tattttaata tgaagttgta gtattttttt aattagatta ggttcatttt tttgtgttaa 300  
 aaattgataa gcgttcaagt tgaagtggt atttgatgat gttttgttgt ttcttgtatc 360  
 atatttaatt taatatattt gtagtaattt tgtaattacc tatntttcat ttgaagttat 420  
 ta 422

<210> 9951  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9951

agcttcaaga aaaagatggc ctacagaaat ttcttatttc cagaagggaa ttctatcaat 60  
 agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttt 120  
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180  
 acagtagaaa gaatttcaat agatggtagt tcatcaagta aaagcataac catagaaaaa 240  
 cctagagata gatggtctga agaggataga aaacgagtac aatacaacct anaagccaaa 300  
 aacataataa catctgccct aggaatggat gaatatttta gagtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtgggacac tcttcgatta acacatgaag gaactacaga tgtaaaaaga 420

tctaggataa atgcactaac tcatgagtat tgaata

456

<210> 9952

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9952

tgataggtaa ggactctatt tgtgactcaa aattatttct agttcaaact agcttttgta 60

tcttatacag cattttgtca tccaactgaa tgcttattat taagcagga tttgatgaat 120

ccaatattgg agaaagggca taacagagtt cctgtctatt atgagcagcc tacaatatt 180

attggacttg ttctggtagt taattatgca tacaatcact tatttttctt tattccttca 240

gtattgaaca atcattatct gctatgtgaa aacttataaa aaccacaaac agtatgagac 300

tattttcttt aagcttcaac ctgttaactt gctttccatc aagatgattn gcacaagtta 360

attatttttg tctgttcgac caaaactatg ttgctaggtt ctgataaacc ctaagttaat 420

attaattaat aattt 435

<210> 9953

<211> 473

<212> DNA

<213> Glycine max

<400> 9953

tgacgtaagc tccattggag cttgtaggcc taggatcttc ttcatttatg gattcctttg 60

cttcttggaa gatgaatggc agcggaatgg agaaggaaga gagagaggag acgccacttc 120

aaggagaaga tgagtctaga agaagctcac ccccatagga ggccatggat aagagcttgg 180

aggaagaagg agatgaatga agggagaggg agagaaaagc atgaaatttt gtgctctaag 240

agagctctga aatctgaagt ttaattttca aatgatcaaa gttcaaaaaa tgcacacata 300

tggcctctat ttatagccta agtgtcacac aaaattggag ggagatttga atttctattc 360

aaatttcact taaatttgaa attgaatttg tggagccaaa ttttgagacc aaaattcact 420

aatataatta aggaatttta actatgggtc agcccactaa ttcaagatca agt 473

<210> 9954

<211> 517

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 9954

tgacaattga gtggtatttt gtttcacata acagggagaa tgagcagcta tccaagtatg 60  
 gtgacaccaa aactgctcga agcattatgt tgatagaact gaaaaaactc atagaggcaa 120  
 atcctctttt ccgtgataag cttatcttcc ctacccttaa gtcacaaaga ctgcgaactt 180  
 tgatcaatca aaggatgtgt tgattaatct ctaccaactt tatctatcta ttttgccatg 240  
 ctcttttcatt cacatagttg ggctctgctt tttgacccat atgtcgttat gggaaaaatg 300  
 aaaagtaaat catgttgatt tctggacatg tagtataatn catatcttct cagtggtaaa 360  
 tgataagaat ttggaagggt ttctggctct tttttaattc attcttgtaa atttgaattt 420  
 tttagcgtgt gtgccttgcc tattttttta tcagtgaatt tatctatgcc ccttaatcat 480  
 gcagtctaaa ctggcagcat cagctctgca aaaaccc 517

<210> 9955  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <400> 9955

taacccatgg aagctcctaa tatctccac tctttttgtg gtgggccatt cttggatggc 60  
 cttgattttc tcaaggcca cttggacccc atttctacca actacaaaac ctaagaaaac 120  
 tatattatct acacaaaagg tacacttctc tatatttgca tagaagggtgt ttttcctaag 180  
 gactgaaaga acttgtctga gatgtcctaa gtgatcatct agcctcctac tatacactaa 240  
 aatatcatca aaataaacia ctacaaatct acctatgaaa tcccttaaga catgatgcat 300  
 aagcctcatt aagggtgctt gtgcattagt gagcccaaaa ggcatcacta gccattcata 360  
 caaaccaaac ttggtcttga aagcaattat ccaactcatca ccctttttca tcctgatttg 420  
 gggataccac ttttaaaaac aaattttgaa 450

<210> 9956  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<400> 9956

tatagaatat ataataaaag aactatgact attgaagaat ctattcatgt ttcctttgat 60

gagtctaata ctatttctcc aagaaaggat attttagatg atgttacaga atcttttagaa 120

caaatgcaca ttcattggaca agattctaaa ggaagaagtc aatcaaatg atgaacttcc 180

aaaagaatgg aaagcttcaa aagatcatcc ccttgacaac attattgggtg atatctcaaa 240

aggggtaaca actagacatt ctcttaaata tttatgcaat aatatggctt ttgtgtctat 300

gattgaacct aaaaatataa atgaagccat aatagatgat cattggatag tagctatgca 360

agaagaacta aatcagtttg aaagaaacaa tgtgtgggaa ttagtaaaga aacctgaaaa 420

ctaccctatc ataggaacaa aataggtatt taggaataag ttagatgaac atggcataat 480

ca 482

<210> 9957

<211> 530

<212> DNA

<213> Glycine max

<400> 9957

agcttggagg atcaatatac aggatcatct tccttgtatt taagcaaata attttttaat 60

taaagatctt tgaatgttgt tagaaattat cactatgagt gtaagttttt ggtacctatc 120

aattcattag tcttcaagtt agaaatttat tgatttccac cccttgcaaa ctcaacattt 180

gttataaaaa gttttaaatt tagagagaaa gcgtttgttt ttatttatta ttaaatttgc 240

ttcacaaccc tttgcaaact cagtaggttg caaaccaaaa tgcagtgata tagtgccatc 300

caacaacaac aacattccgt aaagttcaaa aagctaggca caaccgttca actttcaaac 360

tcaaaaccac aacatgaaca gaaaaacgtg aaacataaca aaatgggttg cactaatagt 420

aggaagcaac taagaaaata gtaaaactaaa aagtgtttta ttaagccaac ttgaagttga 480

gcacactaag atgagaaaaga aacttgagcc agcaccaccac tcaaccccca 530

<210> 9958

<211> 436

<212> DNA

<213> Glycine max

<400> 9958

gcaagctgga gccaatcca agtcactagg ttgtcttgag ccatccccga caacagttcc 60  
 tgagccataa ggggaccac ctttgacctt ctccatctca tacatgccat ctccaaatgt 120  
 gtaccaacc ggaacaaaaa tcattccatg gtgaacaagc tgagtgcag aggtcaacgg 180  
 ggtctcttct tgtccacctc cttgagaact agtgcttagag aagaaccctg caggttttcc 240  
 tgctagtgcc tgtgtatgcc acagccctat agtgccttct aaaaatgctt tgaattgaga 300  
 agccatgggt ccaaagtgtg ttggaaaacc gaacagaaag ccatcggcac cggcaagctc 360  
 acgggggtta ataatatgaa catcatcact ctttgagggt gctcccttct tcacaaggac 420  
 ttcttcagac agtggt 436

<210> 9959  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 9959  
 tgcgaccatt tgaataactc aagagcttcc attgttcaat ttgatcttc tcgatataatt 60  
 atgcgcccta atcggaacctc cgagtgaata gctatgacca ttgaataac tcaagagctt 120  
 ccattgttca atttctagcg tctcgatata ttatggcctt gaatctgacc tccgtgtgaa 180  
 aagttatgac cacttgaata tctcgagagc ttcccttggg gaattctagc gtctcgatat 240  
 cttatgcgcc tgaatccgac cttcggagga aatgtttg 278

<210> 9960  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<400> 9960  
 agctttgatg caacatttgg agaggtttat gatacaacga gatgatgcgc tccatgagag 60  
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120  
 tgggtgttct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180  
 aaagaatgat ccggaggcct acttgagtg ggagatgaaa atagagcatt tttctcatgc 240  
 aacaactatg aggaggacca aaaggtgaag cgtgccgcca tggagttttc cgactatgct 300  
 cttgtgtggg ggaacaagct acaaaaggag agagcaagaa atgaagagct ggttgataga 360

tggacggaga tgaaaaagat catgaggaag cgatatgtgc cggctagtta ctcaagggac 420  
 ttgaaattcc agctccaaaa acttacccca agcaacaagg gggttgaaga gtatttcaa 479

<210> 9961  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9961

tcaggctgct caattgctcc aggttgctgc atggaagggc aaaggtttgt atggtggtca 60  
 gcagaggagc acaaaccaca aacccttgcg acaggtacaa atttctgatt caaggccagc 120  
 tgggttacca agttaaccaa tgcattccagt tttccttcaa gcttcttagt ttcagatgat 180  
 gcagatgggt ttgtagctac ctcatgcact cctctaataga ctatggcatc atttctggcg 240  
 ctaaactgct gggagttgga ggccatcttc tcaattaaat ttctggcttc agcaggagtc 300  
 atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagaagctgt tctgaaatct gatgggtgggg gcaactggca 420  
 catagtttct taaatctctc ccagtactca tacaggctct ctccactgag ttgtctaata 480  
 cctaagatac ccttntgat ggttggtgct ctagaagcat ggaaaaaatt ctctaagaat 540  
 actc 544

<210> 9962  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 9962

agcttgtgta gcggtaatc taactgttaa aagattttcg cacctgttac ctagatgtcg 60  
 gtgcagcttg ataatagttt cctctcttc cttggtgtaa tttcctcttt tgaggtttgg 120  
 ccttaggtaa ttcagccacc ttaatctgca actctttcca catctcgcaa gacctgacaa 180  
 attaataaca acaacaacaa caaagtaaaa ccaattacaa tggattcata tatgatttag 240  
 gtataatctg tgcattgtga taattaaaca ttgaatatat ggttcttaca tattgatgta 300  
 gaagttaaac caaaccttga aaacagagaa gaagaaaaat tgaaagccac attggcgact 360  
 atattgatgg tacatgctct cacatacttt atttgtttc tgaccaaact a 411



<210> 9963  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 9963

cgttctatag aagggttcgtt cctaatttct ctacaattgc attacctctc aatgagctgg 60  
 tgaagaagaa tgtggcattt acctgggggtg aaaaacaaga gcaagccttt gctttgctca 120  
 aagaaaagct tactaaggca cctattctag ctcttctga cttttctaaa acttttgagc 180  
 tagaatgtga tgcctctaga gtgggagttg gagttgtatt gttacaaggt gggcacccta 240  
 ttgcttattc tagtgaaaaa cttcatagtg ccacccttaa cagggggggtt catagaacta 300  
 ccaagaagtc cctttttgag gttgtctatg ggttcaatcc ctaacaccgt tagacctcat 360  
 tccccctccc ctagacactt cttttataca ttaagaaggg ggattctatg gtcaaagttt 420  
 gtaaagaaag ttggcatgag aggggttaat aaccaattt ga 462

<210> 9964  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 9964

agcttcaaca tcagaccact tcctttgttc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggttgat gatgatttct 120  
 ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
 agttgagtct aagacttcaa agagaaaagg actgtgtcat caatagaatc aggagtgacc 240  
 atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa ggcactcactc 300  
 atgagttctc tgcagccatt acaccacaac agaattggcat agttgaaagg aaaaatagga 360  
 ctttgcaaga cgct 374

<210> 9965  
 <211> 529  
 <212> DNA  
 <213> Glycine max

<400> 9965

gaatcggaca tccgtgtgaa aagttatgag catttgaatt attttttagc ttccattgtt 60  
 caatttcgag catctcgata tattataagc ctgaatcgga cattcgtgtg aaaagttatg 120  
 accatttgaa tttctcaaga gtttccgttg ttcaatttcg agcctctcga catattatgc 180  
 gcttgaatcg gatatccgtg tgaaaagtta tgaccatttg aatatctcga cagcttctga 240  
 tgtttaattc gagcggatca atatattata agcctgaatc gaaccttagt gtgaaaaggt 300  
 atgaccattt taatttcccg agaactttcg gttttcattt tcgagcgtct ctatatgtga 360  
 tgctccttaa tataacatcc gtgtgaaaag atatgaccat ttgaatttct caagagcctc 420  
 cgggtgttcaa tttgagcctc tcgatatgtg attggccgaa tcggacatcc ccgtagaaaag 480  
 gtaatacctt ttaattttta ataaatttcc ttgttaaatt tttagcttc 529

<210> 9966  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 9966

accttcaacc tagaggagac ggaccatttt tgtgttggag aagatcaacg acaatgccta 60  
 caagattgac ttgcctagtg agtataatgt aagtgccact ttcaatgtgt ctgatctatc 120  
 tctttttgat gcagatggag gagccttggg tttgaggaca aatccttttc aagaaggagg 180  
 gagtgatgag gacataacca agggcaagga ccatgaagca cttgaaggtc ccatgaccag 240  
 aggcagactt aaacaagccc aacacgtcat agagacaagg ctggtcattt gtatagctgc 300  
 cattgatgat gattgaaggc ccaagtggag aaagatg 337

<210> 9967  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 9967

ttgcagtcta tataaagctt caagatgtga tgtagctcct tgtttatctt gtaggcctcg 60  
 gatcttcttc atcaatggag tcctttgctt cttgaagatt aatggcagtg gaatggagat 120  
 ggaagaatga tgattggaga tgccacttca aggagaagat tagtcaagaa gaagctcacc 180

accataggaa gccattgata agagcttgaa agtaagagaa aaggagtgga gggaaagggg 240  
 gagaaggagc acgaaatttt atgcgtcaaa agtagtctga actttgaagt ttaattctca 300  
 aatgatcaaa gttganaaaa tgcacacaca tgaccactat ttatagccta agtgtcacac 360  
 anaattcgag ggaaatttga atttctattc aaattttact tgagtttgaa attgaatttg 420  
 tgcaccaaat tttggaacca aatttcacta ttatgattag taaattttag c 471

<210> 9968  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<400> 9968

tttatccatg gcttcctatg gtggtgagct ttttcttgac tcaacttctt cttgaagtgg 60  
 cgtctccaat catctttctt ccttctccat tccgctttca ttcattctga aaaagcaaag 120  
 gactccattg atgaagaaga tcttagttct acaagctcca catggagcta catcacttag 180  
 taacgtaaca taaagcgtaa aatcattcag ttcattttct aagattactt tccaatctca 240  
 ctgaaaatcc aatttcatga cactagtgat aaaatagaat caagcattat gagtataatg 300  
 aaattaccaa aaatgagtaa aacagattca tacatatata atacccaaag ggatccatat 360  
 ggggtacaaag attacattca atcctttaga aaaactaacc gatcattgcg tagagcacia 420  
 gactaacaag agaaatggcg aataaagtga tccataatca caactctgca gtgcctcggc 480  
 tgcactatta cttttctctt tctttgcatt tttctctgga atttcttcaa ctcgattctc 540  
 ttttctttaa caatg 555

<210> 9969  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 9969

agcttctctc tcagctgctc aaatgcctct ctacaaagtt ggtcaagcaa aaaattttcg 60  
 tccttctgaa gaagcttgga caatgctagg agaactctggc taaaatccta gatgaatctc 120  
 ttgtaaaaac atgcatgtcc aagaaaagaa catacttctt gcacaaacat ggggtaagga 180  
 aaagaaataa taacatcgat cttcgcctta tcgacctcaa tacctatact agagacgaaa 240

tgccctaaga ctataccttc atggaccata aatgacatt tttctaagtt aagaacaagg 300  
ttagttctcaa tgcattcgatc aaaaactcta gagaggctac ccaaacatg 349

<210> 9970  
<211> 344  
<212> DNA  
<213> Glycine max  
  
<400> 9970

tcatgagaga gtcaaagatc aaattgagag gaaaaatatt ttctatgcta aacaagccaa 60  
caaagggaga aagaagggttg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120  
agaaagggttt ccggaacaaa ggaaatcaaa gtttcaacca aggggagatg gaccatttca 180  
agtgtttgaa agaatcaatg acaatgctta caaagttgag ctgcccgggtg agtataatgt 240  
tagttccacc ttcaatgtct ctgatttatt tttttttgat gcagatggag aatccgattt 300  
gaggacaaat ctttctcaag agggagagaa tgatgaggac atga 344

<210> 9971  
<211> 472  
<212> DNA  
<213> Glycine max  
  
<400> 9971

ccttatgctg caaacatcta taatagacct cctcaatctc atctgcaaaa tcagccacaa 60  
caaaacaatt atgacctctc cagcaacagg tacaagccca ggtggaggaa tcatcccaac 120  
cttaatgggtc gaatccttca caacagcagc aacaacaaca acaaccttat tttcaaaatg 180  
ctgctggccc aagcagacct tacgttctct caccaatcca gcaacaacaa caacaacaac 240  
aacaacccta gaaacaacaa acagttgagg ctccctcgca accttccctt gaagaacttg 300  
tgaggcaaat gactatgcaa aacatacagt ttcaacaaga gaccagagcc ttcattcaga 360  
gcttaactaa tcagatgaga caattggcta cacaattaa tctacaatag tcccagaatt 420  
ctgacagatt accttctcaa tctgtccaga atccaaaaaa gtgagggcat ta 472

<210> 9972  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 9972

tocattgttc aatttcgagt gtctogatat attatgcgtt tgaatcggac ctccgaatga 60  
aaagttatga ccatttgaat ttctcgagag ctacctttgt tcaatttcgt gcgtctcgat 120  
atattatgcg cctgaatcgg acctccgagt gaaaagttat gaccatttga atttctcgag 180  
agcttccgat gttcaatttc gagcgtcttg atatactatg cgactgaatc taacctccgt 240  
gtgaaaagtt atgaccattt gaattttctca agagcttccg ttgttcaatt ttgagcgtct 300  
ctatctgtta tgcgcctgaa tcagacctcc gagttaaag ttatgaccat ttgattttct 360  
tgagagcttc cgttgttcaa ttttgagcgt ctgatataa tatgcgctg aatctgacct 420  
ccgagttaaa aggtatgacc cattg 445

<210> 9973

<211> 291

<212> DNA

<213> Glycine max

<400> 9973

agcttctata gaaggttcgt tctaatttc totacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggcatt tacctgggggt gaaaaacaag agcaagcctt tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttcttg acttttctaa aacttttgag 180  
ctaaaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaaag tgggcaccct 240  
attgcttatt ttagtgaaaa acttcatagt gccacctca actacccac c 291

<210> 9974

<211> 555

<212> DNA

<213> Glycine max

<400> 9974

ttatagcaga tgccactcta ctccaaattc ttgaaggata tgtttttatg gaaacataag 60  
tacattcacc aggaaaacat tatagtggaa agaaattgta gcaactgtgat tcaaaagatc 120  
cttccgcta agcataaaga cctgtgagt gtaactattc cttgttcaat tagagaagtc 180  
actgtgggaa atactcttat tgacttagga gccagtataa atttaatgcc actctccatg 240  
tgtagaaggt tgggagagct ggagatcatg cccactaaaa tgactttaca attggctgat 300

cgctccatta ccagaccata tggagtaatt gaagatgtgc tggtcagagt gaaacatttt 360  
atcttctctgg cagactttgt ggtaattgat atctgtgaag atactgacat tcttctaata 420  
ttgggaaggc cattcatgtt aactgcaagc tgcatagttg acatgggtag aaagagaaat 480  
gggtttttag gatcagaaaa ttgattttga tttgtttgtt gaaagcagcc cgcttcagaa 540  
caaaatgttt gctta 555

<210> 9975  
<211> 394  
<212> DNA  
<213> Glycine max  
<400> 9975

gctatcaatc tttgagcagg agaacttcca atgcataatt ggatgcatca cacattagct 60  
caaaagggga tgtccaatca ggtgcctgaa taataagggg gtagtcacc gcacgcttga 120  
ggcaatcaaa agcctctttg catcggtcat caaaataaaa ctccaagtcc ttttgcagca 180  
gattggatag tggaagggcc actttgctaa aatccttgat aaagcgcta taaaaccctg 240  
catgaccaag aaaagaacga acctctcgaa cgcaagaggg gtaaggcaat tgtgaaataa 300  
catttatttt tgcaggggtct acctctatgc ccctactgga aatgatatgc ccctaaacta 360  
taccttgttc taccatgaag tgacattttt taaa 394

<210> 9976  
<211> 251  
<212> DNA  
<213> Glycine max  
<400> 9976

agcttcaaca tcagaccact tcccaggtgc tgtgactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctgggtctac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc atgagtgacc 240  
atggcagaga g 251

<210> 9977  
<211> 187  
<212> DNA

<213> Glycine max

<400> 9977

tctggtggga catcttgact tgctttccaa tctgacattc accttttatt ctgccctctt 60  
ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120  
ttaagtgcaa atgtccaaat ctttgatgcc atattctgac ttcattctct tgggaggata 180  
gacatgt 187

<210> 9978

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 9978

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aaacttcttc aaacaaatct ctattcaaaa aagcattatt aacatctaatt tggagaagac 120  
actagtttct agcagcaaca acacagagca aaactctcac agtggttaagc ttggccattg 180  
gagaaaatgt atcagagaaa ttgattccag cttattgagt ataccctttg gcaaccaatc 240  
gagctttgta tctatccaca aagccatcca ttttatattt aaccttatac acccatctac 300  
aaccataca atgcttatca ggtggttaagg gaacaagtgt ctagggg 347

<210> 9979

<211> 371

<212> DNA

<213> Glycine max

<400> 9979

agcttctcct ctagaaagtt ccaaattctt ccaccaggtc caccactctc ccataatca 60  
gcaacctcca ccatggcacc atctcaagcg cccctccat tgcaccttca gagccctctc 120  
cgacaagtac gacgacgtca tctccctatg gttcggtcc cgctcgtcg tegtctctc 180  
ccaaacacta ctccaagaat gtttcacaa aaacgacgtc gtctcacca accaccccca 240  
ctttctctct ggaaaacaca tatcttctac actatggtga gtactaacgc gttaagggga 300  
ggaagattga tgggtggcaca agagaacgag gaggaaaagg tggaggcttc taagtatcag 360  
cgcgaaaaac c 371

<210> 9980  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 9980

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 aagttattgt cgtttgaatt tatcagagct tcagtatgca atattgagcg tctcgatata 120  
 ttacggcact caatcgaaca ttcaattaaa aaggtattgt gcgttggatt tgatcagagc 180  
 ttcaacattc aatttcgagg gtttcgatat attacgggga ctctatccaa cacttccgta 240  
 aaaaagttat ggtcgtttga atttgctccg ggcttcaaca ttcaattttg agcgtttcga 300  
 tatatgacgg gattcaatcg gacatctgag taaaaagtta ttggcgtttg aatttgctca 360  
 gagcttcggc attcaagtcc gagcctctcg atatattacg ggactcaatc agaccaccga 420  
 gtaaaaagtt attgtcgttt ga 442

<210> 9981  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 9981

ttttactcgg atgtctgatt gagtcccgtg atatatcgag acgctcgaac tggaataccg 60  
 aagctctgag caaattcaaa cgacaataac tttttactct gatgtctgat tcagtcccgt 120  
 aatatatcga aacgctcgat attgaaagtt gaagctgtga gcaacttcaa actacaataa 180  
 ctttttactc ggatgtctga ttgagtccca taatatatcg aaacgctcaa tattgaatgt 240  
 tgaagctttg agcaacttca aacaacaata actttttact cggat 285

<210> 9982  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 9982

ttacatccca tattgtgata aaatcttttg tttttttgt tatgttgagg ttatgaaatg 60  
 atgattcaaa ctatgagtat gtgataaatt gaacatgtga cggatgatga aatacatgtg 120



tattgagatg agatgtgtgt attgagttgt gaactatgaa ctgtgcaatc acacaattgt 180  
aagacccttt aaggacgacg agtattgtga tgggatccac tgtgggaacc cgacgagtta 240  
aaatgatttt gaaagcaatt gagtaaattgt gtgtattgca tagttcatag ataaagtgt 300  
tatgattcat gaggtgtgat aacatgttaa attgagatta taccattgtg attgggatta 360  
agtgtatgtg ataaattgag tatgtatatg attgatatat atatatatgt gcattgaaat 420  
gttgtgtgca ttgaattgtg aacctataat ttgttaatta cacgatcata agt 473

<210> 9983  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 9983

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tggtgctcta cccttataca aaggagaact agctcatata ggtctctata tggaaggagt 120  
tcaaccatgt ctcttacttc catatttaaa ccacttagga acctagcaat gcttggctct 180  
tccttcccc tatgtctagc tctcaaaaag agtaattcca tttgttgtct atattcttcc 240  
acactcatac tcctttatct aagcctttgg agcttgtcca taagctccct ttcataagtaa 300  
gagagaatgt gcctttttct aagggcactc ttaagattat tccaatacta tattggagga 360  
tccccatgaa tccttct 377

<210> 9984  
<211> 320  
<212> DNA  
<213> Glycine max

<400> 9984

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atagattttc ccattgataa ggctcagca acctccctc gagctgcttc atgcctccac 120  
aagaccaaga ccgtgttttag caaaggccat ctaacatgag aatctgcctt cttctgtgtg 180  
aagcctagtc ccttgagcaa taaatccaac tgtctacaat taagaaaatc acaattagta 240  
atggcaatgc catgtgagct ttccaaatgt tttcactaag taagtaagta aaaagttgca 300  
taaacccttc ttatgtcatc 320

<210> 9985  
 <211> 319  
 <212> DNA  
 <213> Glycine max  
  
 <400> 9985  
 agctttgaat gctctattca atggagttga caagaatata ttcagactga tcaacacttg 60  
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 gaagatgtcc agattgcaac tgttggccac aaaattcgaa aatctgaaga tgaaggagga 180  
 agaatgcatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240  
 gggagagaag atgacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg aaagtcact 319

<210> 9986  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 9986  
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 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa attttcatcg 120  
 aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca 300  
 taataacatc tgccctagga atggatgagt atttcagggt ttcaaattgt aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420  
 ggataaatgc actaactcat gagtatgaat tatntanaat gaatgcnaat ganaatattc 480  
 agagtatgca aaagagattt acacatatag taaatcatct ag 522

<210> 9987  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 9987

gtttttaagt tcttctcat tactgtcta agcaaagttc ccaaagtcct attaacaact 60  
ttcgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt agtgcccaac 120  
ttgctccaca aagtcctcca aaaatgactt atgaacttag agtccctatc actaacaatg 180  
ctccttggca aaccatggaa tctcacaatc tccttgaaaa acaaatcagc caaatgggaa 240  
gcatcatcaa cttttttaca tggaataaaa tgagccattt tagaaaacct atcaacaacc 300  
acaaaaatgg aatctctacc attgcttggt tttggcagcc ccaaaacaaa atccatggat 360  
aatcaatcc aaggatactc ccgaattggc aatggagtat acaatccatg 410

<210> 9988

<211> 217

<212> DNA

<213> Glycine max

<400> 9988

agctttcaca tggatgtgcg attcgtttct taatatatcg agacgctcga aatcgaacaa 60  
cggaagctct cgataaattc caatggtcat aacatttcac tcggatgtcc gattcgggga 120  
cataatatat cgagacactc gaaattgaca accgaagctc tcatgatatt caatgctcta 180  
acattcacac ggatgccgat tcgggacata actattt 217

<210> 9989

<211> 433

<212> DNA

<213> Glycine max

<400> 9989

taactaatca aatgggacaa ttggctacgc agttaaatTT acaacagtcc cagaattttg 60  
accgattacc ttctcaatct gtccaaaatc caaaaaatgt gagtgtcatt gcattgaggt 120  
cgggaaagca gtgtcaagga cctcaaccag tagcatcttc ctcatccgca aatgaacctg 180  
cccaacttca ctctactcca gaaaaagatg atgacaaaaa ttttaacgagt aagttaccta 240  
acaatttata tgcaggtgaa tctttcactg gtaattctga tttacagaag cagcatatcc 300  
ctcttccatt ccctccaaga gcaatttcca acaaaaaaat ggaagaggca gagaaagaga 360  
tcttggaac atttagaaaa gtagaggtaa acatacctct gctggatgca ataaagcaaa 420

ttccaagata tgc

433

<210> 9990  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 9990

agcttctggg aaaaatcctc gagttttctt tatcaaaact ccagtggtt cattggaatt 60  
agggtgaacc tacagcattg acaaattatc tcataaatat atcacttcaa ggttcgttgt 120  
ttgtttctca cgaaacttat tcaccattgg aaacaaagag gatttacctt tctccaacta 180  
tgaccaagaa attcattcac agctatagca ttctgtccat acatcagtgg tgaggaccag 240  
taaccccaca gaaaccattt gtgcacattc tctggcacat agaacaaaac tatcataata 300  
aaggttcatt acagtaacca actttgaagt tacattacca ttttcttacc tcgggaaatc 360  
acaaatccct ccaaaa 376

<210> 9991  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 9991

agcttctata gaaggttcgt tctatttttc totacaattg catcacctct caatgagctg 60  
gtgaagaaga atgtggaatt tacctggggt gaaaaacaag agcaagcctt tgctttgctc 120  
aaagaaaagc ttactaaggc acctgttcta gctcttctg acttttctaa aacttttgag 180  
ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240  
attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatg 295

<210> 9992  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 9992

cctcgaaggt aaactagatg ccttggttaa cctggtttcc ttttgggtca tgaatcaaaa 60  
atctgcacct gttgccagac tctatggttt atgtcctct gccgaccacc acacagacct 120

ttgcccttct gtgcaacaat ctgaagcaat tgaacagcct gaagcttatg ctgcaaacaat 180  
ctacaataga cctcctcaac ttcagcagca aaatcagcca caacagaaca attatgacct 240  
ctccaacaac aggtacaacc cctgggtggag gaatcatccc aaccttagat ggttgagtcc 300  
tttacaacag catcaacaac aacagcctta tttccagaat gttgctggcc caagaagacc 360  
atacgttcct tcacc 375

<210> 9993  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 9993

agcttcaaga gatcatcccc tcgatttctt tattgggtgat atctcaaaag gggtacaac 60  
tatacattct cttaaagatt tatgcaataa tatggccttt gtatctatga ttgaacctaa 120  
aaatataaaa gaagccatag tagatgataa ctggatcatt gccatgcaag aagaactaaa 180  
ccaatttgaa aaaaacaatg tgtggaaatt aatagaaaaa cctggaaatt atcctggcat 240  
agggacaaaa agggtttt 258

<210> 9994  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 9994

gaattctcaa gcttcaaacc tgcaacaaaa gagttgagca ggtaaaaaag attcctcttt 60  
ttactcttag aggggacttt gagcgtctgt ttatggagga gtctgactca atctctgatt 120  
atttttctcg agtattggcc cgcctcaatc acacttaaaa gaaatgggtga acatgttctt 180  
gatgtgaagg tcatggaaaa aatacttcga actttaaatc ctagttttga cttcattggt 240  
accaacattg aagaagacca tgatttatag accatgacta ttgagcaact catgggttct 300  
ttactagcgt actaagaaaa ac 322

<210> 9995  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 9995

ccttaagctc tcacaccatt tgaaaaagac tcttataacc atttcaatta cactcttgtg 60  
gagcatgtgc ctccactatt cccccaac agtctaccat gacaccatca acatgtacta 120  
atttcaacac cttcagctgc tttagtagat catccagatc aactagctca catttaatat 180  
tgatcacccc taactataaa acaatataca cagaatgttc ctatataatg gtagattcat 240  
atttaaagat aatttcctaa agaaaattag agtggttctt ttcttataact aagaatatct 300  
ctcaaactct aatttcattc gaggactatc attcactgat attgtgattc tcattagtca 360  
aatta 365

<210> 9996

<211> 297

<212> DNA

<213> Glycine max

<400> 9996

agcttgaaat tgaacaacgg aagctcttta gaaactcaaa tggtcataaa ttgtcacacg 60  
gaagtccgat tcaggcgcat aatacatcga gacgctcgaa attgaacaac gaatgctctc 120  
gagaaattca aatgatcata acttttcaaa cggaagtctg attcaggtgc ataatatc 180  
gagacactct aaattaacaa cgaaagctat caagaaactc aaatgggtcat aaattgtcac 240  
acggaagtcc tattcatgag cataataaat cgagacgctc gaaattgaac aacgaat 297

<210> 9997

<211> 501

<212> DNA

<213> Glycine max

<400> 9997

tgtaataat taaaaaacac caaacctaca aatacatctt cttttaaaaa ttaagaaaaa 60  
taaacaacat ggtaatgata gaaatgtgca taaatcaatg tcgattaatg aatatatcaa 120  
aaattaaaat aaatttaata agaacatct aatacttttg tttctctata aaattgaaaa 180  
tataatacaa ttagaatata ttaataaaaa ttaatgacac gtataataat taattgataa 240  
tatctccttt taaaaaaaaat ctgaaagtag aataattcat caatttctac atcaattatt 300  
tattatataa acaaatataa tgatcttgta tataaataga aaaaaaaaaa aatacaatga 360

aaaaaatta cttgttacga ataaaaataa aattaaagaa acaagtctca cgaaaaaagt 420  
gtatatgaat ggaatgtgac aacaaaatat gcaacaaatt gtattaaggc ccagggttttt 480  
ggaatgaaac aaaaaatgcc c 501

<210> 9998  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 9998

tatgcagaga atatccaatg tatatacctt catctgactt aacatcaaatt ttttctaagt 60  
tatctttttcc attattcaat acaaaacatt tacaaccaa gatatgaaga tgtgagatgt 120  
ttgggttttct gccattgaac aattcatatg gagtttttctt taaaatgggt cttattaaag 180  
ccctatttaa aatgtagcat gcagtgttaa cggcttcagc ccaaaagtat tttggaagag 240  
gagtatcatg tttatgttca atgacacact tttgagaata aatga 285

<210> 9999  
<211> 505  
<212> DNA  
<213> Glycine max

<400> 9999

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tctttattca gcaagttgct caatggtttg acgatttttag agaagtcctt gatgaacctc 120  
tgatagaagc ctgcgtattc gaggaaactc ccgataccct tggcatttat tgggtggaggt 180  
aaattctcaa tgacatcaat tttggctttg tccaccttaa tgcttcaggc tgaaatcttg 240  
tggcccaata ttattccttc ttggaccatg aaatgacact tctccttatt cagcaccaga 300  
tttgcttcaa ctcatcttcg caatacgagc tctagattag tcaagaagta gtcaaaggaa 360  
agcccaaaaa ttgagaaatt gtccatgaag acctttatgc acttttctac catgttctga 420  
aaaaatagct agcacgtacc tcttaaaagg ttgttgtgca ttacataacc ccgatgacat 480  
ctttttgtat gcaaagaccc caaag 505

<210> 10000  
<211> 351  
<212> DNA

<213> Glycine max

<400> 10000

ctggggttcga tggccccaat gacatctatc ccctacattt tataaggcca aggggcgggac 60  
ataacattca gaggatgtgg cggaacattg acattgtccg cgtatgcttg acatttatga 120  
catttcctta catgggcgca gcaatcgctt tccatagtga gccagtaata accggcccta 180  
aggatcttcc tggccatagc atgcccattg gcatgtgtcc cacatgaacc cccgtggatt 240  
tcctcaatca tgcagattgc ctctttggca tctacgcac gtatgagggg catgttgggg 300  
tttcgtttat acaggatggg accacttaca aagaaacaa tatccaatct c 351

<210> 10001

<211> 361

<212> DNA

<213> Glycine max

<400> 10001

agcttgtgct attccaagtt cattaattat acctttaagc cagattgctt cgttcactcc 60  
ttcaactaag gccatgtatt ctgcttcagt tgttgaaagg gcaacaactg attgttgatt 120  
tgcttttcaa ctgattgctg taccaaacaa agtaaacaca tatccagtta aggactttct 180  
tgtatctacg tttcctggaa aatctgcac tacatagcct gtgattgctg cttcatgtgt 240  
tgtcttcttg taccttaatc cagctttcaa agatccattt agatacctta gtgttcactt 300  
cacaactttc cagtgtatgc tgccaggatc tcccatgaat atgcttataa tacttacagc 360  
a 361

<210> 10002

<211> 393

<212> DNA

<213> Glycine max

<400> 10002

ggcctaggat cttcttcac aatgggattt cttttgtctc ttggaagatg aatggcagcg 60  
gaatggagaa tgaatagaga gaggagacgc cacttctagg agaagatgag tttataaaaa 120  
gctcaccacc ataggaggtc atggataaga gcctggagga agaagatgaa tgaagggaga 180  
gggagagaag agcacgaaat tttgtgctct aaaagagctc taaaatctga agtttaatat 240



tcaaatgata aaagttgaaa aaaatgaaca cacatgacct ttatttatag cctaagtgtc 300  
ccacaaaatt ggaggggaaat ttgaatttca attcaaattt cactagaatt tgaaattgaa 360  
tgtgtggata caaaatttca ctaagtatga tta 393

<210> 10003  
<211> 457  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10003

gcgatcctta acgcactgcy gctgcagctt ntgaaactgg aatcatttat cctatctcca 60  
tcagccaatg ggtgagtccc gtccaggtag tcccgaagaa gaccgacctc acagtgatca 120  
aaaatgagaa ggaggagcta attcctactc ggggtgtagaa cagttggaga gtctgcattg 180  
actataggag gctgaaccag gttacaaaaa aggaccattt tcccctgaca ttcattgacc 240  
agatgcttga acgcttggca ggtaaatccc actactgttt ccttgatggg ttttctgggt 300  
atatgcaaat tactattgct cctgaggatac agggaaaagac cacattcatc tgcccccttcg 360  
gcacttttgc ttataggagg atgccttttcg gctgtgcaa tgccccctgg accttcacgc 420  
ggtgcatgat tagtattttc aatgatattt tagaaaa 457

<210> 10004  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10004

agcttgccgc cacggagnnt ttttactatt ctcttgtgng gnggaacaag ctacaaaagg 60  
agagaacaag aaatgaagag ccaatgggtg gtacatggat ggagatgaaa aagatcatga 120  
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaagattga agaagatgag gtgatcagga tataaccaag ggcaaggacc atgaagcact 300  
tgaagggccc atgaccagag gcagacttaa acaagcccaa cacttcatag agacaaggct 360  
ggtcatttgt atagctgcca ttgatgatga ttgaaggcct aagtggagaa agatg 415

<210> 10005  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10005

gcttccaaga ttattntgat gatgccatth attatttaatt atccattcaa acaagattaa 60  
 agaaatcaag aagattcaag agaagactta agatatgtaa gaacctcaag aaaagcatca 120  
 agataagtat aaaaagaatt tttaaagaa aagattgaat aacacaattt gtccaaaaga 180  
 attttttcaa gaaaaatctt ttaccagagt ttttactctc ttgtaatcga ttaccataag 240  
 gcagtaatcg attaccagaa gcccaaaaca gttttataac tgttttatac agtagtaatc 300  
 gattaccaat gtttttgaac gttgaatttc aaatctcaag agtctcaact tgtgacaaaa 360  
 tatttttcaa acagtgtaat cgattacaca atatttgtaa tggattacca gtggtttttg 420  
 aatggttgat t 431

<210> 10006  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10006

agcttgaggc acaatggtag ccacaaagct gattattctg catagctgcn gcatgggaag 60  
 aagaggagaa gaccaagtgt tgtcttaggt aactcaacct taatagtttc agtgcattga 120  
 ataactatth tcaataactt ctgacacatt ttcaataacc ttaattatca atttgattct 180  
 caaatthtta aaaggttcaa ttaaatgctc aagthttttaa agatgaaatc aatttggtct 240  
 tcaaattatt ttaaatatth taatttggtc ttaagttct taaaatttg aaatcatat 300  
 tgattcattt ttaaaaattt gaaggttcaa ttgattcatt ttaagaatt tgaggactaa 360  
 attaaacctt ttaataattt gnggatcaaa ttaatttatt ttaagaact tatgatcaaa 420  
 ttgaacc 427

<210> 10007  
 <211> 406  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10007

agcttgcatt cgactaaccc atattacaat tctactagaa aatagtcttt taacatcggg 60  
tgttttcgat tttcaacatc gatgtttaac cgatgttgaa accaccgacg ttaacattat 120  
caatgctaac attgggttttc aaaaaaccga tgттаатата cactacacga catcgggtttt 180  
taagaaaaaa ccgatgtcgt atagtacaaa atgtatgaaa aacaaatact acaataaaca 240  
acatcgggttt tagtcaaaat cgatgttgaa ttgcgtattc tgaaacgctt actacatcgg 300  
ttatgaacaa accgatgtag agagtacctt tacaacatcg attattggaa gaattgatgt 360  
taaagtgtgt tatgatatca gnttttagtac aaactgatgt agaaaa 406

<210> 10008

<211> 333

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10008

agtctcacga tagtcacgtg cttttctttt angttagccg aggctatacy agacatactt 60  
gccaaacaaag tcagggttaac gataactcac ctatgctctt tctttcattc tataatgtagc 120  
aaagtcattg atccagtcac atttgatgag ttggaaaatg aggccgcaat tatactgtgc 180  
cagttggaga tgtattttccc ccttgctttc ttgacatca tgattcactt gattgttcat 240  
ctggtcagag aagcagaaga agccattgaa ttttgttcag aatacttaga gaaggctaaa 300  
cctgttgggc tttctgagtc tcggcatgat gac 333

<210> 10009

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10009

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gctgatatga agagtgtat taagactgct gttgctgagt tgcttccggt tcttgcttct 120  
cgaggttcag agtcagaatt cttttctgga gacagagctg tggatgcaga tgggtgagaat 180

ttcgc tagca taaatgatta tgtttgtctg tacgagaaaa tataactttta atatctttct 240  
 tccatcgtgg ttttatgtga tctgttctac tttcaacttt ctaatgctaa atagtaactc 300  
 aggtggaggt gcatcacttg ctancaagtt gcgagagcta tcatctgact gttttgcgca 360  
 tctttctga 368

<210> 10010  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10010

agcttgggtgg ctagtctcatg gctttaattt tccaatactt caaaaagatt gcccttaagc 60  
 tacttgcgca accttgttca tcttcttggt gtgaaaggaa ttggagtaca tattcattta 120  
 tccattcttt aaagagaaac aagatggcac cacatagagc tgaagattta gtatttggtc 180  
 atagcaacct acgaattctc tcaaggaata ctccacaata tcatcaagag gaaactaaaa 240  
 tgtgagatgt aactggagat gattttgggt cacttgatga ttgtggtatt cttgaaattg 300  
 ctagtctgtc ttttagatgaa ccagagttag aggggtgtctt tttcattgat gattgctagt 360  
 ttgtgaaatt cgtgaagact tgaagttggt aattcatcat cttgctntat a 411

<210> 10011  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10011

agcttgactn tctgaggatg acatacttat gtaagtttct tgttgccct ctccaccatg 60  
 atagagtgtc caagcaaaac catcaattta ttattgacaa agttaatcaa aggttgagca 120  
 attggaaaac gtccaattta tccatagcat gtagagtaac tttaacaaaa gttgttattc 180  
 aagccatgca tatctatgtg atacaaacta ctttattact gtcttcggtg tgtgaagaaa 240  
 ttgaaaaaaa tgttgtaatt ttgtttgggg ccacacaaat acctctagca aaattcattg 300  
 gcgaaattga gattctctat gcattccaaa aagaaatggc gaccttggtc tgaggaaaac 360  
 tagtgttatc aaccaagttt ttttaatgga ggtgggggtg aaattatgta tgcgacctaa 420

tga

423

<210> 10012  
<211> 421  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10012

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acaatagcat catttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa 120  
ttcctagcct cagcatgagt catatcaaca agggctccac cattggcagc atcaatcata 180  
ctcctctcca ttttgctaag tccctcatag aaatattgaa gaaggagttg ctcagaaatc 240  
tagtggtgag ggaagcttgc acacaatttc ttgaatcttt cccaatactc atacaagctc 300  
tctccactca gttgcctgat gcctaaaatg tcttttctga tggtagtggt cctagatgca 360  
gggaaaaatt tctccaagaa cacccttcta aggtcatccc agctgaaaat ggacttgggg 420  
g 421

<210> 10013  
<211> 313  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10013

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cgacaataac tcttgactca aatgtccgct tgtgtccctt agtatatcga gacgctcgta 120  
atagaaaagg gaagctctaa gaataatcaa acgacaataa cttntaactc ggatgttgga 180  
tagagccccg taaaatatcg agacgctcga aattgaaaac agaagctctg agcaaattca 240  
aacgacaata acttttgact cggatgtccg attgagtcce ataatatatc gagacgctcg 300  
aaaatgaaaa tag 313

<210> 10014  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10014

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ttcttgatgc tctctgatga tgttttccag gaccttgta acctgcttgt gcaacttctt 180  
caatctgggc atctttccag ttaggaaata taagaatgga attgaaggaa agacatcagc 240  
aaggctgaat cctcccccg attctacgat tnttcggatc aaagacacaa caaactcatc 300  
ttgctccttg tatatgccac cgaatgctac cctggaaata gaggcacata tcaatgagaa 360  
aattctactg gtgagattga taggcgaacc agcagattcg cgaatggagt tgatanactn 420  
tgctgctcg tcttctctaa t 441

<210> 10015  
<211> 413  
<212> DNA  
<213> Glycine max

<400> 10015

agcttttcga gaaaatgaaa taattatgta tgtgatctag agcaacttac ttatttgaag 60  
ttggtgatca aagagacatt cagggtacac ccactactc ctttattgct ccctagagaa 120  
tgctctcaac caaccatcat tgatggctat gaaatacctg ccaaaactaa agtcatggta 180  
aatgcatacg caatttgtaa ggattcccaa tattggattg atgctgatag gtttgtccct 240  
gaaagggtcg agggtagttc tatcgatttc aaaggggaata actttaacta tctccctttt 300  
gggggaggac gaagaatatg cccaggcatg acattgggtt tagctagcat tatgcttcca 360  
ctagctctac tactgtatca cttcaactgg gaactcccaa acaagatgaa acc 413

<210> 10016  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 10016

ctcagctgaa cccattacgt aatctctcgg gtgttgaggg tactttttat ggatttttca 60  
cgtatttcgt gaaagactac tcttgctaac gaaatattat cgtgtagagc accctgttgt 120

tgtaacatct caatgatgtg ccaagcaata gcttcttctt cactgatctgg atccgatgca 180  
cgaataaggt gttctgctct gtcaaataac ataaaatgaa ttaagcagga tacatgctgt 240  
cgaccaccta tgatgcacgt atactttcaa aatggcgagca tatacatact ggacctgtgc 300  
tac 303

<210> 10017  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10017

agcttccaga ttggtatacc atgccactgt tgctcctgct aagctgnctn gaaagaaatg 60  
catcaacaac ttttcgtccg tagaatatgc ccccatcttt cggcaataca tccgaagatg 120  
tccttttggga catgtcgtcc ctttgtatct atcaaaatct ggtactttga acttgggagg 180  
gatgacgatg tcaggtacca aacacagatc cgccaaatct gagaacgggt agttgccgag 240  
gcctttctage gccctcagcc tctcttcaag taaatcaatc tttcccttat cttttgcaaa 300  
gggaacggat tctttaacgg gtgcgggtgg agacgggaca tggcggacta tgtttggttg 360  
gggcaattca tggggggggcg gatccttgag gggcagtaga gggcctagac gggcatcttc 420  
ttca 424

<210> 10018  
<211> 291  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10018

tactagnnga gcattagaac taacgaattc cgtaataact tccttagaaa ggactttctc 60  
ccgaacaaaa tgacaatcaa tctcaatatg tttagttctc tcatggaata ctagattaa 120  
agctatatgt agggttgcct gattatcaca acatagcttc gcttggtgag tatttccaaa 180  
cttcaattct taaagaaagt gtttaatcca natgagctca caaggggcta caaccatagc 240  
tctatattca gcctctgcac tagacgttgc aacaacattt tgcttcttac t 291

<210> 10019

<211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10019

agctcgacac agnncnnacc ttataccaat tgtaaattngc aagcactaca aaaaaaagca 60  
 gaatgacttg ccatgcaact tgggacatta gcacaatgat agtcattaac tagataagtg 120  
 caaacactag tccagctaatt ttgtatggta tgtctgtgtc tacagtactt tgatccgttt 180  
 atggctataa tcatacaaaa aagaatgggt gaaatcttat taaagctgat aataatcaaa 240  
 agatagcagt aatctatcaa ataaagaaat aacagtgaac ctgaccctac tcgtaatttg 300  
 gcttgaaggt gtgggtgtcaa aaaatgaaac atgtgccctt aanacaatcc ttcctagtat 360  
 gaagatgggtg ccacaaaaag atagaagagc aaatgttccc at 402

<210> 10020  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10020

tgtgggttgg aagtccaagt agttatcgct tacattcnta ttttgattgc aaagnctgnt 60  
 attgaggctt tgcctatcta ctctatgggtg acaataaaaa ttccatgggg aattatcaac 120  
 aatattaaga aggatgagag atcttttatt tgggaagatc aagtgggaag aaagaaaatg 180  
 catgctatag gttggaactt gatgggtcgg cctaaagctt atggaggggt ggctatgtga 240  
 aatctcaagc ataagaattc tgctagtttg atgaagttag ggtggtttct cagaaatgat 300  
 gtgaacaact tatgggtgtca gggtcctaaa gggaaatatg cgagacaaga tttctctgca 360  
 acatgtttgg tagccaagcc acatgat 387

<210> 10021  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <400> 10021

ctgcagcttt ctttttggca catctattct ttttttgtgt agaatgaagc ttgacaggtt 60



cagggtgcagg tgatactact ggtggaggca cttgaatttg gttgtcagac ctcaaggtga 120  
 tggcactcac attttttggga ttctgcacag tttgtgaagg caatttgtca gaattttggg 180  
 actgagcttg gttcatctga gtagccactg ccctatctga tttgtcatac tttgaatgga 240  
 ggctcttgtc tcttgcctgaa attgcatatc ctggatgac atttgctca ctaactcttc 300  
 taaggaaggt tgaggaggag cctcaactgc ttgttgtctt tgttgtgact actgctgttg 360  
 ttgctgctgt attggaggag gaacatatgg cttgcttggga ccaacaacat tctg 414

<210> 10022  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <400> 10022

agcttatgct gcaaacattt ataatagact tctcttatta tcataaccaa caacagcaaa 60  
 ataattatga cctttcaagc aatagatata atccaggttt gaggaatcat ccaaactctga 120  
 gatggacaag tcctctataa caacaacagc atgtccctcc ttttcaaaat gttgttggtc 180  
 caaacaagcc atatgttcct cctccaatac agcagcagca acagcaacag tcacaacaaa 240  
 gacaacaagc aactgaggct cctcctcaac cttccttaga agagttagtg aggcaaatga 300  
 ccatccagaa tatgcaattt cagcaagaga caagagcctc cattaagagt ctgacaaatc 360  
 agatggggca gatggctact cagatgaacc aagctcagtc ccaaaattct gacaaatttc 420  
 cttcacaaac t 431

<210> 10023  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <400> 10023

tgtctctcaa tcaagttcct gtgaaaagaa agtttcttat tgggtgtgata aaaataactaa 60  
 gattatgttg aaagtgtgca tagaagaggt gaatgttgga aataaacctc acaaccactt 120  
 cactaagctt gggtgggcaa atattgcaga aaagttcaat aagacaacaa atttgagata 180  
 tgaatataag caattcagaa ataggttgga ttctttgaaa aaggaatggc aattatgggc 240  
 caagcttatt gggaaggaca caggtcttgg ctgggatggg gagaagaaaa ccattgcagc 300

tagtgatgaa tgggtgggaag ccaaaaattca ggtatgtgtt attcaactga aaccattgca 360  
gcctttct 367

<210> 10024  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10024

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ccaacctcca tatttgaggt taatgattct agcccataaa tgctgctgac cagaagctaa 120  
ggcccatatc catttgccca acaaagctac attgaattta gatatttatt taatccccag 180  
acccccttca gccttaggaa ggcaaataac cttccatttt acccacggaa ttttcttgta 240  
atccttttct cccccctata aaaaattcct ttgcaatgct accaatctat gagctacctt 300  
ttgaggaatc ttgaagaaag ataagaggta aattggtaaa gcattgagga cagaatttat 360  
cagagagacc tttcctgcca tggatatatn tttttgtgcc cacttgagata atttagattc 420  
acat 424

<210> 10025  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10025

agcttttctct catcattgct cattctnttt gttattttcaa cttgcacacg aaccaattga 60  
tcacccctca tattgtcttt attcaggaag ggaacacctt tottagccat aacaagtgtt 120  
gtgttcgggt gtgtcccagc aggaattttc aaatcgaccg ttccatctac agtaggaacc 180  
ttaattgtag tccccaggat tgcataata tacgaaacct tgcaggtgta taaaatgttg 240  
gtgtcatcac gtttaaggat gggatctggg ataacctcaa taactacaaa gaggtcacca 300  
ggggaaccac ctttccttcc agcattcccc tcattccgga cccttagacg actaccagag 360  
tccacaccag ctggaacctt cagacttatc cgttttgatt tccttaccog 410

<210> 10026

<211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10026

tcttggcaat cctcattcca gcgatcagtn tggtttttgc ttaagagctt gaacagcggc 60  
 tcacaaatgg cgatgagctg cgagatgaat ctggcaatat aattcaagcg tcccacgaaa 120  
 cctcggactt gcctctctgt acggagttct ggcattctca ggatagcctt cacctttntg 180  
 gggctctacct ctatcccttt ctggcttaca atgaaaccaa gtaatttccc tgatttgacc 240  
 ccaaaggtag acttagcggg gttcaacctt aattgatatt tcttaagcct ttcgaacaac 300  
 ttccgcaggt tgacaagggt ttcttcctcg gatttagatn tagcaattat gtcgtccacg 360  
 tagacctcga tctcttgatg catcatatca tggaaaaaag ctaccatggc ccgttgataa 420  
 gttgccccga cattcttgag 440

<210> 10027  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10027

gtcttcgctt ccatttggtt tatggagaaa cctgatgatg gtattaatgg aactggtag 60  
 cnttcacaac atcatgcaac caagattggc caaacatttg caacttccca tttcacgat 120  
 taaaactttc cctgttatga ttggtgatgg aaatcattta atttgtaatg gtcaatggac 180  
 taacgtgcct cttttagtcc aaaaccattt gtttacttta ccattttatt tgttacctat 240  
 ccaggagct gatttggtat tgggtatgga acggttgaga actttgggcc ccattatttc 300  
 tgactntgta gtcccttgca cgactcttac ttacaatgat tgctccatta ctttaaaagg 360  
 ggaactatta aatcctcaat ttaccatttt tcagtaactc tgccacctca tgcatact 418

<210> 10028  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <400> 10028

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aactgtagac actacctctc cccacaagta cttgggcaga ctcttgccctt tcaacatgct 120  
ccttaccata ttcattatgg ttctattttt tctttctgca gctccattat gttgaggtgt 180  
gtagggagga gtcacttcat gaattatgcc ttcttgatca caaaattctt gaaattctac 240  
agaaacatat tcaccaccac catctgttct caatatcttg atcaatgagc cactttgctt 300  
ttctgccata tttttgaact tctcaaagac ttcaaagaca tcactcttcc ttcttattag 360  
gtaaactcat actttcctag tcaattcatc aataaaggat atgaagtatc tgtttccacc 420  
c 421

<210> 10029  
<211> 403  
<212> DNA  
<213> Glycine max  
<400> 10029

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tactagacct gatctctcct ttgctgtggg agtgggttagc caatttatgc agaatcctca 120  
tttgaccat tggaatgctg ttatgcgtat tctgaggtat gttaagaaag ctcttgagca 180  
aggggtgttg tatgaagaca agggtagtac gcaactatca ggatattgtg atgctgattg 240  
ggctggatgt cccatggata ggagatctac atcacgttat tgtgttttca ttggaggaaa 300  
tctaactctt tggaagca agaaacaaac tgttgcgtc cggctctagtg cagaagctga 360  
gtatcgatct atggctatgg ttacatgtga gtcctgtgg atc 403

<210> 10030  
<211> 288  
<212> DNA  
<213> Glycine max  
<400> 10030

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aacggaagct ctcgagaaat tcaaaggggc ataactttta actcggaggt ccgatccaag 120  
ctcataagat atcgagacgc tcgacattga acaacggaag ctctcgagaa atacaaatgc 180  
tcataactct tcacacggag gtctgaggca cgcgcataat atatctagac cctcaacatt 240

aaacagcggg agctctcgag aaattccaat gggcataact tttcactg

288

<210> 10031

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10031

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tgcctatgta gtgttaagtg tccaatggct taaatcattg ggtccactac tcacagatta 120

taacatcttg tgcattgcagt tcttctatca gggacgcatg gtggaactga atggtgatca 180

ggatgacact ccgaacttca tcacactgtc acaattttgg cgaatttcgc agacccaagc 240

tttaggactg tactaccaca tcacacttct atogaaggac tcgccaacc cacaggacct 300

tcaccagat attcagtccc tctgactaa gtctgcacac ttngttcacc aaccagcac 360

cttgtcatcg aagtaggaca ccgatcatca cattcatctc ctccctcagt tcaactcggg 420

caacgtgaga ccgtatcact acccacactt ct 452

<210> 10032

<211> 428

<212> DNA

<213> Glycine max

<400> 10032

agctttctgct gcaaacattt ataatagact tcctcatctc aaaaccaaca acaacagaat 60

aattatgacc tttcaagcaa aagatacaat ctaggttgga ggaatcatcc aaatctgaga 120

tggacaagtc ctccacaaca acaacagcct gtccctcctt tccagaatgt tgttggttca 180

agcaagccat atgttcctcc tccaatgcag caacagcaat aacagtcaca acaaagataa 240

caagcaactg aggttcctcc tcaaccttcc ttagaagagt tagtgaggca aatgaccatc 300

cagaatatgc aatttcagca gaagacaata gcctccattc agagtttgaa aaatcagatg 360

gggcagatgg ctactcaatt gaaccaagct cagtcccaaa attttgacaa attgccttca 420

caaactgg 428

<210> 10033

<211> 327

<212> DNA  
<213> Glycine max

<400> 10033

gccctgatga gactaatgaa ggaggtatag atgttgaaat taagctaaag gagttagaac 60  
aaaagtcagc tgaagtcagt accgagtgga gtattgtccc tggacgtgga gggcattcca 120  
ctctgggtatt tattttctgtc taattgaatt tgtattctct ttaacaaccg aggaattttt 180  
ggcctgcccc attaatttgt ttactttcta tgttgacttt gtgtaagctt cccttcagcc 240  
aggtggcact ggtagttttg aacatcgga tctgcaaggg ctgaatagat ctattaacgg 300  
ttctataaca acaagcaact tcttgaa 327

<210> 10034  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10034

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gnggagtgac caagctgagg ccctgtggtc gacacacacg gcaatgatca cgcattgaaa 120  
gcttgccatg aaacacatta agccattgct cgtgtaatga gctggaaatg tcttgcttat 180  
gtctttctga aaaacgtaat gatataataa ttctcttaaa gaggaaaatt aaactagtta 240  
agatagattg atgcttaatt acttgaatta tgaaccatgc tgcccagaca aggggtgctaa 300  
gaattacgac caaagggcct aggaacatgt ttcccttgcc agaagagcta gttccttcca 360  
atttctcagc atatcttcag tgaatacttg 390

<210> 10035  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 10035

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aggtgggtacc aaagaaaggg ggaatgatag tcatctggaa cgagaagaac gacttgatac 120  
caacattgac tgtcactggg tggcgaatat acatcgactt cgactaccgc aagctaaatg 180

aagccataag gaatgatcat tttcctttac ccttcatgga tcagatgttg gagaggcttg 240  
taggtcaggc atatattgct ttttgatgg atattcaggt tataaccaga ttgctgtgga 300  
ccccaagac caagagaaga cggccttcac atgccctttt ggtttgccta tagacagatg 360  
tcatttgggt tatgtaatga atcagccaca ttccaaaggt gcatgct 407

<210> 10036  
<211> 428  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10036

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anaaattatg acctctccag caacaggtac aatctcgggt ggaggaatca tcccaacctt 120  
agatggtcga atccttcaca acagcaacaa caacaacaat agccttattt tcagaatgtt 180  
gctggcccaa gcagaccata cgttcctcca ctaatccagc agcaacaata gcaacagccc 240  
cagaaacagc aaacagttga ggctccactg caaccttccc ctgaagaact tgtgaggcaa 300  
atgactatac aaaacatgta gtttctacaa gagaccagag cctccattca aagcttaact 360  
aatcagatgg gacaattggc tacacagtta aatcaacaac aatcctagaa ntttgacaga 420  
ataccttc 428

<210> 10037  
<211> 408  
<212> DNA  
<213> Glycine max  
<400> 10037

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atgcagggaa gaatttctcc aagaacaccc tcttaagggtc atcccaattg aaaatagacc 120  
tgtgagcaag gtagtatagc caatcttttg ccactccctc tagagaatga ggaaaaacct 180  
ttagaaaaat atgatcttct tggacatcag ggggcttcat ggtggaacaa acaatatgga 240  
actccttaag atgcttatga ggatcttcac ctgcaagacc atgaaacttg ggcatcaa 300  
gtattagtcc aatgttgaga acatatggaa caccctcatc aggatattga ttacacaagc 360  
tttcataagt gaaatcaggt gcagccatct ctctaagagt cctctcac 408

<210> 10038  
 <211> 561  
 <212> DNA  
 <213> Glycine max

<400> 10038

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 gactatggca tcatttctgg cgctaaactg ctgggagttg gaggccatct tctcaattaa 120  
 atttctggct tcagcaggag tcatgtctcc aagggtcca cactggcag catctatcat 180  
 acttctctcc atattactga gtccttcata aaaatattgg agaagaagct gttctgaaat 240  
 ctgatggtgg gggcaactgg cacatagttt cttaaactc tccagtact catacaggct 300  
 ctctccactg agttgtctaa tacctgagat atccttctg atggctgtgg tcctggaagc 360  
 agggaaaaat ttttctaaga atactctctt aaggctatcc cagctcgtga tggaccttgg 420  
 agcaaggtaa tacagccagt cctttgccac tccctctaataaatgaggaa aagccttcag 480  
 aaatatgtga tcctcttggga catctggggg tttcatggtg gaacagacca tgtgaaattc 540  
 tttccaatgt ttgtgcgggt c 561

<210> 10039  
 <211> 585  
 <212> DNA  
 <213> Glycine max

<400> 10039

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 gcagcgtaat ggagaaggag aagggtgatt ggagatgcc cttcaaggag aagatgagtc 120  
 tagaagaagc tcaccacat aggaagccat ggataagagc ttgaaggtaa gagaagatga 180  
 atggagggag agggagaaag ggagcatgaa atttagtgcc tctaaagaag tttgaacttt 240  
 gaagttaaat tctcaaata tcaaagttga aaaaatgcac acacatagcc tctatttata 300  
 gctaagtgt cacacaaaat tggagggaaa tttgaatttc tattcaaatt ttactagaat 360  
 ttgaaattga aattgtggag ccaaaatttc actaattatg attagtgaat tttaactatg 420  
 gttcagccca ctaatccaag atcaagttaa agattctcca ctaaatgtgc ttaggtggca 480  
 tgaggcatgt aaagcatgaa ggacatgcac aaagtgtgac tatatgatgt gacaataggg 540



tgtagccagc aaatgctcac ctccccctcta aaatttaatt ggatt

585

<210> . 10040

<211> 521

<212> DNA

<213> Glycine max

<400> 10040

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tagcttcata cgccaatgtg actaggagtg tggtgattag attcataaaa aaggagataa 120  
tttgctgata tggggtgccc aggaaaatta tcaccgatta tgccaccaat ttgaacaaca 180  
agatgatgaa ggaaatgtgt gaggatttca aaatccaaca ccataattcc acaccttaca 240  
ggcctaagat gtatcgtgca gttgaggttg ctaataaaaa tatcaagaag atagtccaga 300  
agatgattgt gtcatactag gattggcatg agatgttccc ctttgcggtg aatggttatc 360  
gaacttcgat gcgcacatct actgggcaac ccctttttct ttggtgtacg ggatggagggc 420  
tatgctcccg tttgaggtgg aggttccttc tttgagaatc ctatccgagt cggggttggg 480  
aagattcgaa tgggccaag ctcgcttttt gatcagttga a 521

<210> 10041

<211> 487

<212> DNA

<213> Glycine max

<400> 10041

ggaagccgaa cagcggacgc tctacgaaaa ctgcattttt tataacttat cacacggagg 60  
tgcaattgag ggcataata tgtccagacg ctcgaaatta aacaacgaat actctcgaga 120  
aattcacatg gccgtaactt atcgcacgga agtccgattt aggcgcataa tacattgaga 180  
cgctgaaaat tgaaccacga atgctctcaa gaaattcaaa tgggcatagc taatggaacg 240  
ggaggccgat ttatgcgcat aatacattga gaagcttgaa attgaacatc ggaagctatc 300  
aagaaactaa aatggttgga aactgttaca cagaagtgcg actcaagcgc ataatacatg 360  
gagacgctcg aaattgaaca acgaattctc tcgagaaatt cgaatggtca taaaatttca 420  
aacggaagtc cgatttatga gcataatata gcgagaaagt tgcaattgaa ccacgaatgc 480  
tctcgag 487

<210> 10042  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 10042

ttaaatactc agcttataat tgcagcagcc aatccttgaa gtttcctggt tcttcctgtg 60  
 aaataaaaga aaaaaagaaa ttaaacctaa ttttggtcag gtaaggaaaa gtaggacaaa 120  
 cttaccta at gcaaaatggc aaggtaaaag tttgccaagt ctcttcaatg tgggtcatttc 180  
 atcatctggt agtttaggat tcacaccata tggaagaaag cgaaagggtt ttctataacc 240  
 atgaataaca gcaggcagaa gatcagcatc aacaggcaaa ggatcacctc cccaccaatc 300  
 agtaa atcgaggccaagcc ctggttagcaa acagtctgta tcttctgcaa actctgcttc 360  
 atctggcagt tgaaatcgta ctttattgtg agtaccaaca cctattatta aagctgggtt 420  
 tgctgtttca ccatttgaat tttccacacc acatgccctt gaatttttt 469

<210> 10043  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<400> 10043

tggtataaat gttgtcaaca taagggccct tgagttattt agtgaacttg tttgcaagtt 60  
 ggtcactaaa gccgacaaaag ttggtgatga tttctcctga aagcaccttc tctctcacia 120  
 agtgacagtc aatctctatg tgtttagtcc gttaatggaa gagcgaattt gaagcaatgt 180  
 gaatagcata ttgattgtca catattagtt tagtatcttg agtgtctcca aatttttagct 240  
 gttggagaag tttcctaagc catgtaatct cacatccagc tgctgccata gcacggtaat 300  
 cagcttcagc actagatcta acaactgttt tttgcttctt gctcctacaa gggatcaagt 360  
 ttctccaat gagaacacaa taccctaaag tggacttctt atttgatggt gatcctgccc 420  
 aatcagcact aga atagcaa acgatgacag catcacaatt tgtatgacaa catttcaatg 480  
 actatcacat gcaa atgtga tatctgggtct agtgacaatg 520

<210> 10044  
 <211> 511

<212> DNA  
 <213> Glycine max  
 <400> 10044

tatcagggtat aaactatttta aaatcgtaag gaatttcttt ttataagatt gaactgaaaa 60  
 taaataaatt ttggtggata aaaatcgtaa caaattgtga aatcgtaaac tcaatgaaca 120  
 aagaggggact aaaagtaact ttctgaaaat ttgaggggact aataaaaaata attttttttg 180  
 agaactaaaa aatacttacc gaaatttgaa agattaaaaa tatatttaag ccttaaataca 240  
 atcttataaa atcagcttgt aagatgaaag atgtcccaca cttatatata ctaatttgac 300  
 tatactctta gacaatgtga tctcgaacac aacctctcat gtcaaagata ggatatctcg 360  
 tgcgtgaagt ttgcaggatt ggaagtttat gggtagtggt atagatgtcc ggtagaggggt 420  
 ggcacaatag gcctaacaat agattgctag gataaacttt gatatcatct taaaatgtgg 480  
 gtttgaacct aactcaacct taaaaactag c 511

<210> 10045  
 <211> 579  
 <212> DNA  
 <213> Glycine max  
 <400> 10045

tttacctctc gttttaactc tcagcatctc ctgactttca atgtcaaaga taaggcaatg 60  
 ttgattttca aaaaggatac tttaaactct ttttctatca actaacctac gctaagaaaa 120  
 ttttgggtcaa tatcgagtac ataaagaaca tatgagattg tctttatacc tgaacttggt 180  
 gagattacga tggctccttt tccttttgcc gaaatataac caccgttccc aattctgatt 240  
 tttgagactt tagtaggctt caaatccttg aagagtgttt tgtcatatgt catgtgggtt 300  
 gtacaaccac tattaatcaa ccagcattct gaactactcc ttgctgaaaa agatgttgcc 360  
 acaaacattt gatcttcttc atcttgctct atgaactgag cattgacttc atgctgtaga 420  
 aacttgcttt tgcacataac aacttcatgt acaaactgat tgcatttgct gcactttgca 480  
 tctggacttc tcccgcattt gaatggcggg ttaccattt tgccacaatg gtgacaaagt 540  
 gggtaatttt ttcttatacc cttaccttta ctttgggca 579

<210> 10046  
 <211> 601

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10046

tgagaatgtg cctatgaatt ggttttttagc tatgtttata aaccagccct gagagaatat 60  
 ggcgagtgaa attccgaatg acagattcta ttagggcacc acaatgatca cggacatat 120  
 tattaattga accaggatga acatattcca gataaatata aaaacggtgc tcaacctgca 180  
 agcacatatg ttaaggggtt aatgctggta cagaataatg attattaatc ttgagtagct 240  
 aattatgaag taggagattg cttactatct cactgccaaa atactgtacg atgtttgaat 300  
 gttagtagatt nctaagaact ttaatttctt ggagaaaaag aataaactaa taagaaggat 360  
 aaagaggata tacaaaaata catatcttca aaactattac ggaacgataa atatatatag 420  
 gcaagcagcc caagccatta ttaataaaaa caacctcatc aagtattcaa ctacagtggg 480  
 cactaaaacc aatgannna cctcacttgc aaatatatga tatcggccaa ggccatacat 540  
 atatatatat atatataggg aaattaatag actagttaat ctgagctgaa catcttaact 600  
 g 601

<210> 10047  
 <211> 613  
 <212> DNA  
 <213> Glycine max  
 <400> 10047

cgccaatttt ggtctagatc taaatagaca attaatTTTT tttttatgat gttcctcaat 60  
 ttttatcaaa tgctatttta gtggatgtga gttatgttgc tttttcgcag atttttaatt 120  
 gttttttggg ggtaatttcc cctccaattc acccaaaaaa atgttaattg ttatggaact 180  
 attaaatcaa tgcaaaaatg gcagaaaaat taatataaat agataaacta agaaagcata 240  
 aatctaatat gaacaaaaaa atcaccaact aagtcgaaaa tgctactcaa aagtgtgatg 300  
 tgaacatgtg aattgcaaca ccctgaaatg gaataaaaaca aagaacatct ttcagcgttg 360  
 gatgttaaaa gaacaaaata ataagccaat aaatgttgaa ccatataatg ataataaaaa 420  
 aatgtttatg tctatgcact aatagtgtaa aataatttta tattgttatc caatcacaaa 480  
 tcaccctttt gaattacttt aagataatta ctttaaaagt caacaaattt cccatgcatg 540

gtgtcttatg acatgatgtc tgggttaaac attttacatt ggcagtgtat aacccttttt 600  
 cttataaaaa aaa 613

<210> 10048  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <400> 10048

tccttaagaa gattcctaaa gaagctagag cttatcttca catacctctc taatagctaa 60  
 gcttacctcc ttgagatgag aagctagagc ttagctacac acctcctata atagctaagc 120  
 tcaccccatg acaaaaaaca tgaaaattca aaaaaaagt ccttactaca aagactactc 180  
 aatagaatgg ccaaaatata aggcccagac gaaggaaaaa cctattctaa tatttacaaa 240  
 gataagcggg ctcatactta gcccatgggc ttgaaatcta ccctaaggct catgagaacc 300  
 ctcaggcctt cccttggatc tctagcccaa tctacttggga gtcttctacc caatgccctt 360  
 gtggggtagg attgcatcat tccctccacc ttggaaagga tttgacctta aatcccgagg 420  
 ttcttcatac tctgggctcc ttccctcaac acctgtaaaa ataacaaaaa catatgtatt 480  
 agtg 484

<210> 10049  
 <211> 619  
 <212> DNA  
 <213> Glycine max  
 <400> 10049

tcatgagaga gtcaaagatc aaattgagag gaatttttta aactatgcta aacaagccaa 60  
 caaagggaga aagaaggttg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120  
 agaaagggtt ccggaacaaa ggaaatcaaa gcttcaacca aggggagatg gaccatttca 180  
 agtgcttgaa agaatcaatg acaatgctta caaagttgag ctgcccggtg agtataatgt 240  
 tagttccacc ttcaatgtct ctgatttacc tctttttgat gcagatggag aattcgattt 300  
 gaggacaaat ccttctcatg aggagagaa tgatgaggac atgaccaaga gcaagggcaa 360  
 ggatccactt gaaggacttg gaggacctat gacaagggtt agagcaagga aagccaagga 420  
 agctcttcaa caagtgtgt ccatactatt tgaatacaag cccaagtttc aaggagaaaa 480

gtccaagggtt gtgagttgta tcatggccca aatggaggag gactaaatga caccactttg 540  
 tttcaatttt agagtgggta gtttgtctaa ataatggccc aatccttgta aagttggctg 600  
 acccaaaaata tgttttggg 619

<210> 10050  
 <211> 595  
 <212> DNA  
 <213> Glycine max  
 <400> 10050

tctaagttct aataggggtga taaagagcag aattgggttta tgtgaaccac aagtatagag 60  
 ttactataat acactaaagc tccattaaaa actgaaccat gagtacataa tatactacat 120  
 tgcaactgca ttaaaccatgt tattgttatt aaccaatttc aggacctaga ggaccctttc 180  
 ccttatttgt gagaaaacta gcttaataata atctagttct ataattaact aaggagttaa 240  
 gagaagctat cccaaaaacg caatatcacc ttcttatggt tgttcacaaa gttgaatttg 300  
 gaattaacta agtgataagg aagggttcc acaaattcat tcatcctcta aggtgcttcg 360  
 acttttttga attctctttt gtactacata atcaggacat agctttttcc catgatggat 420  
 tctgcacatt tttcctttct gggggcttga agcctgcatt aattcttaat gggacttggt 480  
 ttttaacaaa tgggcatgtg cattcttact ctactgctat ctcatctatt tttgggtata 540  
 tttacgtaac gtaaactcat ttaacttcaa aatttcattt catggtgggg aacat 595

<210> 10051  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <400> 10051

ccttaagaag attcctaaag aagctagagc ttatcttttt tacctctcta atagctaagc 60  
 ttacctcctt gagatgagaa gctagagctt agctacacac cttctataat agctaagctc 120  
 accccatgac ataaaacatg aaaattcaaa aaaaaagtcc gttctacaaa gactactcga 180  
 tagaatggcc aaaataccag gccagacga aggaaaaacc tattctaata ttacaaaaga 240  
 tgagcgggct catacttagc ccatgggctt gaaatctacc ctaaggctca tgagaaccct 300  
 caggccttcc cttggatctc tagcccaatc tacttggagt cttctacca atgcccttgt 360

gggggaggat ggcattcttc cctgcacctt ggaaaggatt tgaccctaaa tcccgagggt 420  
cttcatactc tgggggtctt tctctacac ctgggaaaat aacaaaaa 468

<210> 10052  
<211> 589  
<212> DNA  
<213> Glycine max  
<400> 10052

tcatgcttaa ctatgtatgt caaaacttca ttactgttgt tcaagacata caagtgaagt 60  
tgtaacaaat cttctacact tggagtgatc atatgcagtc ctcttgaacc cttaccaccc 120  
actctgtcat catgccgaga ctcaggaagc ccaacagggt taggcttctc taagtattct 180  
gaacaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc ttctgggtcaa 240  
tatagattct ttgtatactc ttttaagatc ttcatgtatc gctcaaccgg gtacatccac 300  
cgtagataaa caggaccaca acatttgatt tctttgacca gatgcacaat caagtgaatc 360  
atgatgtcaa agaaagcagg gggaaatata tctccaactg gcacagtata attgcggcct 420  
cattttccaa ctcacaaac ttgactggat caatgacttt gctacatata gcatggaaga 480  
aaaagcacia gtgagttatc gctaacctga ctttgtttgg caagatgtct cgtatagcca 540  
cggctaacia ttgttgcatt agcacgtgac aatcgtgaga ctttaacc 589

<210> 10053  
<211> 463  
<212> DNA  
<213> Glycine max  
<400> 10053

tataacaaat ctaaaacaca aagtttgaaa ccaatttggt gactaaaacc tgcctatct 60  
tttctcttt ttaaagaac aagaaaaata cagaggaagg gaatccctgg aggaaaccag 120  
gaagaacaaa aaactcagaa ttgaaagaac atgcaatggc cctcttgatt gccccatatt 180  
tcaagcgtaa tatcgtttaa ctacatcgga gttcacgggc gagggcaatt cctcgccatc 240  
catgtgggtg agtatcaaag caccaccaca aaaggctctt ttcaccatga aaggtccttc 300  
ataatttggg gcccaattgc ctggtttatc ttttaacagc cgggaaatct tttttaacac 360  
gatgtcccc ttgttgaact tgcgcgggag tacctttttg ccgaatgcgg gctttatccc 420

ttcgttgaga caaacgcccc tggcttatgg cagacaaaac gct

463

<210> 10054  
<211> 563  
<212> DNA  
<213> Glycine max

<400> 10054

tttctttgta cacctacatt cctatacacg ataaactttc tttgtataca catgtatgaa 60  
aaactctttc tcttttatatc aacacgggtct atataacaac tctattcctg ttcaaagact 120  
tctttttcgt ttttcaacat acaaatcgtg gtttatacaa aaacttcttt atatacactc 180  
atggctcaca cacaagaatt ttttttcaca cattatttac acacacacaa aatctttcca 240  
tacacttttt acatataaaa aaatattttc ttttctttat atatagacac gacatttggt 300  
cacaaccctt ctttcttttt ctcttttttt ttattcttgg cgttatcatg attttttggt 360  
cgttatattt ttaggacgac gttcctaaag gaaaactcta caagggttaa gaatttcaac 420  
aaacattatc aacaataaca aagtaagcat taacgcaaca ggccaaacaa aatgtatgca 480  
caaaacaaaa gacaatcgaa aaaacaaaac aaacgttagt cccttcagtc atagaaacaa 540  
gataacattc caatgataaa tga 563

<210> 10055  
<211> 517  
<212> DNA  
<213> Glycine max

<400> 10055

tcaagaaaaa gatggcctca gcaaattcct tatttctata aggaaattct atcaacagac 60  
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180  
tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240  
gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300  
taataacatc tgcccttagga atgggtgaat atttcagagt ttcaaattgt aagagtgcta 360  
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420  
ggataaatgc actaactcat gagtatgaat tatttacaat gaatgcaaat gaaaatattc 480



agagtatgca aaagagattt acacatatag taaatca 517

<210> 10056

<211> 530

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10056

actctataga acactcgcgc gttgagaaaa atcaaacgac aataactttt gactttttgt 60

ctgattgact cccgtaatat atcgagaccc tcgtaattga aaacagaagc tctgagcaaa 120

ttcaaacgac aataactttt tactcggatg tccgattgag tcccgtaata tatggagacg 180

ctcgttaattg aaaacagaag ctctgagnaa attcaaacga caataacttt ttactcggat 240

gtccgattga gtcccgtaat atatcgagac gctcgttaatt gaaaatagaa gctctgagca 300

aattcaaacg acaataactt ttaactcggg tgtccgattg tgtctcgtag tatatcgaga 360

cgctcgtaat tgaaaacaga agctctgagc aaattcaaac gacaataact ttttactcgg 420

atgtccgatt gagtcccgta atatattgag acgctcgtaa ttgaaaacag aagctctgag 480

caaattcaaa cgacaataac tttttactcg gatgtccgat tgagtcccg 530

<210> 10057

<211> 518

<212> DNA

<213> Glycine max

<400> 10057

cccttcacaa agagaatcat cttgatatga taactttttt tgtcctctga caaggctatg 60

cttttgaagc tttgagatta accttaagct agcatgacca agcttcttat gtcaaaccct 120

ataatgctct ttgactgaaa gtaggcataa aacttttgga ctagacagat caccaagttt 180

aatcttatac agatttcctt gtgtcttagc ctagaagagt gaagagtttt ccttgttctc 240

aatgatacac atatccttgt taaaagtgac attgtatcca ctatcacata atttacttat 300

gctaagcaaa ttatgcttca accctttaac aagcaaaaca ttatctatag aaagataagg 360

aggaatacat actttaccta caccaattat cagacctttc tgattccggt cgaaagtgac 420

caccctacta aaaatagggc ttagggattg aacatagact tttcacttat catgtgtcgt 480

gagcaacccc tattcatgca ccacgactga tgttttctt 518

<210> 10058  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<400> 10058

tcatgatgat gaaccatgca attttgatga tgccaattgc tctaactagt tgattcaaga 60  
 ttgattcaag acttcagaat acaatccaag attcaagatt caagagaaga aatcaagaac 120  
 caacaagtca agacttcata taggataagt attaaaatat tttttcaaaa accaaatagc 180  
 acagttttgt tttacaaaag aattttctca aattttctaa gttaccagag tgattactct 240  
 ctggtaatcg attactagtt ggtagtaaag tttggttttc aaaatgtttt caaatggttt 300  
 acaacgttcc aaaatgattt tcaaatagtg taatcaatta cactatatta gtaatcgatt 360  
 acaagtgaat ctgaacgttg gaattcaaat ccaattgtga agaatcacia cttttcataa 420  
 aatgaagtgt gtaattgatt acacctttgt ggtaatcgat taccagtga cagttttgaa 480  
 gaagaagtga agagttatta ctcttaacat 510

<210> 10059  
 <211> 633  
 <212> DNA  
 <213> Glycine max

<400> 10059

ccgcttcatg atgaatcaaa aatgattcaa aggtgttttg atgataacaa tgatgacaac 60  
 aaaagataat gacaaagggtg atgaacaaaa agctcaaaag atcaaagaac aactcaagt 120  
 aatcaaagaa catctcaagt gaatcaagaa caagtcaaga gttcaagaat caagaagaat 180  
 tcaagactca agaagaaagc ctacaatcaa gattcaagat tcaagatctc aagaatcaag 240  
 atcaagattc aagactcaag attcaagaat gaataaaaga ctcaatcaag ataagtatta 300  
 aaaagttttt tcaaaacttt gaatagcaca tgagtttttg ataaaacctt taccaaagag 360  
 tttttactct ctggtaatcg attaccatat tggtgtaatc gattaccact agcaaaatga 420  
 gtttgaaaaa gttttcaaac tgaatttaca atgttccaaa ttttttcaaa ctgtaatcga 480  
 ttacaatgtt tttggaatcg aataccagtg tccttgaacg ttgaaattca aatttaaagt 540  
 tgaagaatca cattgtttca ctcaaaagct ttgtgtaatc gattacactt attttgtaat 600

cgattaccag tgtttgtttc tgaaaaatct aaa

633

<210> 10060  
<211> 468  
<212> DNA  
<213> Glycine max  
  
<400> 10060

caccttccat caagtgcgga ccctcaagga aatccacat tttttccatt tttcggagcc 60  
ccataaatgt tattgcctag cgctattcat gtgtcctcca ctttcgagtt tggagctatg 120  
tttcatgatt gcctaagtgc ggaccctcaa ggaaatcctc cattctcccc ctttttcgga 180  
gccccatgaa tgttattgcc taacgctgtt catgtgtcct ccaccttcga gtttggagct 240  
atgtttcatg attgcctaaa agcggaccct caaggcaatc ctccattctc cccctttttc 300  
ggagcccat taatgttatt gcctaccgct gtccatgtgt cctccacctt cgagtttgga 360  
gctattgtta catgattgcc taagtgtgga ccctcaaggc aatcctacat tctccccctt 420  
ttttggagcc ccattaatgt gattgcctac cgttgtgcat tggtcctc 468

<210> 10061  
<211> 301  
<212> DNA  
<213> Glycine max  
  
<400> 10061

tgagctgtcg agaagcatag gccactactt gtccccgctg aataagcact ccacccaaac 60  
gcatcttata tgcatcacag tacaccacaa agggttcact tgggttaggt aacactaaaa 120  
ctggtgcagt ggccaacctt tccttaaggg tacggaaact attctcacat tgggcatccc 180  
acacaaaaac tagaccctta cgagtaagct tagtcaaagg tgaggctagc gttaaaaagc 240  
cctctatgaa tatacggtag attcctgcta taccacagaa actccttata tcaaacactg 300  
a 301

<210> 10062  
<211> 364  
<212> DNA  
<213> Glycine max  
  
<400> 10062

ggtattgaca agcgtgctat tgagaggttt gagaattaag ctgctgagat gaacattatg 60  
 tcattcaaat acgcctgggt gcttgacaag ctttaaggctg agcgtgagag aggaattacc 120  
 attgatattg cattatggaa gtttgagacc accaaatact actgcactgt tattgatgct 180  
 ccacgacatc gtgatttcat caagaacatg attactggaa cttcccatgc tgattgtgct 240  
 gtccttatca ttgattccac aactggtggt tttgaagctg gtatttccaa agatggacag 300  
 actcgcgagc atgctctact ttgccttacc cttggtgtca agcaaatgat ctgttgctgt 360  
 aaca 364

<210> 10063  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10063

agcttgtag gagctgtcgg tgaataaagg tcctcaccat ccatttcaat tttctccaac 60  
 tccttaccac atatggtaaa aataaacatt aacttctatc aaagacacat tgaaaattta 120  
 acataaaaat ccacaataaa aataagcctt cagacanttgc gccagtacct ccggatacca 180  
 gctcggcgtt cttcttttagg gagtggaaat agtacaccag agatggatgt aactttgtca 240  
 aagaaatcaa actctctttt aaatatgtca agtgcccttg gattaaaacc atcaattata 300  
 cgctgcctta ccgctggcag caggtctaga aatgaacat tctgaaataa aaatacagag 360  
 ataaaatcta taaagtatga tgtaaaaaaa a 391

<210> 10064  
 <211> 331  
 <212> DNA  
 <213> Glycine max  
 <400> 10064

tgtaccttgg aaacacatca aatattcact tattagctac attggattgg gcttctacca 60  
 attcaattaa atttattttc aaccacacac atcaaattatt cacttagtgc atgtgaaatt 120  
 acaaaactac ccctaataca aaaaactagt ctaggtgccc taaaatacaa gggctgaaaa 180  
 atcctatatt tctaaagtac tctacctaca ttatggagcc ctaaatacaa ggcccaaaaa 240

taatgaaacc ttaatctaatt atttacaag ataagtgggc tcatacttag cccatgggcc 300  
 caaaatctat cctaagactc ataagaaccc t 331

<210> 10065  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 10065

agctttggaa tatttcaagc aagagtttgg agtgcacatt gaagttacaa agatgtggag 60  
 agctatgaaa gaagcaaagc aactagtggg aggggaatgag aggaaacaat atgccaaagt 120  
 atttgattat gcacatgaat tattaaggag caatcctgga tcaacagtta agatcaacac 180  
 agtgccaagt ccagaaggtc caccacaatt gcagaggcta tatatttgtc ttgctggctg 240  
 taagaagggg tttgttgctg gatgtagacc attcataggt ctagatggat gttttctaaa 300  
 gagtgcattt ggaggaaact ttctctctga tgttgggctt gatggaaata accacatctt 360  
 tgttattgct tatgtt 376

<210> 10066  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 10066

aactttttac tcggatgtcc gatagattcc catcatatat caacacgctc gaaattgaat 60  
 gttgaagctc tgagccaatt caaacgacaa taacttttta ctggatgtc cgactgagtc 120  
 tcgtaatata tcgacacgct cgaaattgaa tgtcgaagct ctaagcctat tcaaaccaca 180  
 attacctttt actctgatgt ctgattgagt gacgttatat atcgggacgc tcgaaattga 240  
 atgttgaacc tctgagccaa ctcaaacgac aataactttt tactcggatg tctgattgag 300  
 tcccgtaata tatcgagacg ctcgaaattg aatgt 335

<210> 10067  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 10067

agcttaaaca ttcaatttcg agagtctcgt tatattacgg gactcaatca gacatccgag 60  
taaaaaagtta ttgtcgtatg aattggctta aagcataaac attcaacttt gagcctctcg 120  
atatattacg ggactcaatc agacatccga gtaaaaagtc attgccgttt gaatttgctc 180  
agaggctcaa aattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtcttt tgagttggct cagaggttca acattcaatt tcgagcgtcc 300  
cgatatatta cggcactgaa tccgacatcc gagtaaaaag ttattgtcgt ttgaaattgc 360  
tctgatcttc aacattatat 380

<210> 10068  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 10068  
gacgctgtaa tgattatagc atgcacacac acacatatat atgtatatga attgttttaa 60  
taaattagga attaatagtt caaataataa aattaaattg aaggaaatta atatattaag 120  
attcaatgat aaatactttt aatgcatttt tagtttaatc atttattaac tctttttaat 180  
ggaaaataat atagttcaat ttaatatatg catgttttgt gccatgtaaa tattaatatt 240  
gtgtgatgtg tatatgattc atgagggtgtg ataacatgtt gctttgggat tataacattg 300  
cgattgaaat tgaatgcatg tgataaattg agtatgtgtt gaattgtaag atacatgtgt 360  
attgagatgt tgtatgcatt gagtagtgag ttatgaattg tgcaatcaca caattgttag 420  
accatttaac atgtagcttt gggg 444

<210> 10069  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 10069  
agcttgtcat cgattacaca catactgtaa tcgattacca gtgtagattt tcagaaaata 60  
ttctcaattg tcacatcttt tcatttggct ctcgaatggc tatcaaaggc ctatatatat 120  
gtgacttgag acacgaattt gctaagagtt tttcagaaca aaaaaaggtc ttatcctctt 180  
aaaaagaaaa atcgttttat cctcttacaa attccttggc caaaacactt gtgattcaat 240

aaggaattat ttgagtgtct aaattgttca atctatctct ttcaagagag attacttctt 300  
 ttcttcttct ttattctgaa aaagaattaa gagaccgagg gtctcttggt gtaaagaaat 360  
 ctgaacacaa a 371

<210> 10070  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10070

tcaagtttta agttctttct caaactgtcc taagctaagt tcccaaagtc ctattaacaa 60  
 cttccgtttg cccatcggtt tgtgggtgac aagcgggtga aaataacaat ttagtgccca 120  
 acttgctcca caaagtcctc caaaaatgac ttacgaactt agagtcccta tcactaacaa 180  
 tgctccttgg caaaccatgg agtctcacia tctccttgaa aaacaaatca gccacatggg 240  
 aagcatcatc aactttttta catggaataa aatgagccat tntagaaaac ctatcaacaa 300  
 ccacaaaaat ggaatctcta ccattgcttg tttttggcag ccctcaaaca aaatccatgg 360  
 attaaataat t 371

<210> 10071  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <400> 10071

agcttgaaat tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttttcacaca 60  
 gatgtccgat tcgggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120  
 gagaaatttg aatggtcata acatttcact cggatgttog atccggggac ataatttatc 180  
 gagacgctcg aaattgaaca accgaagctc tcgacaaatt ataatggctg taactcttca 240  
 cgcgaaatgtt cgattcgggg acataactca tctagacgct cgaaattgaa caacgggatgc 300  
 tctcgaaaaa tttgaatggt cataagtttt cacacggttg ttcgattcgg gaacataa 358

<210> 10072  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 10072

atttgagaag ctagatcctt atctatccac acccctctat taactaaaat aactttctta 60  
aaaataatta cggatgaaaa taacgcagca aatattcaaa catcgacaca taattactag 120  
tagcatataa atatatatat atcagggtgt tacgactctt ccagccttat agaaatttcg 180  
tcctcgaaat ttaccttact cacacaagga tgggtgagct tctcacatct gactatgtaa 240  
ttcccatgtg gcatcttcta ctgatgcacc tcccagatc accttgacca acagaatctc 300  
ttccctctt aggtgttatg ttcgcctatc ctogat 336

<210> 10073

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10073

ggccgccacg gagtntccg actatgctct tgtgtggtgt aacaagctac aaaaggagag 60  
agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgacgaa 120  
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180  
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tcgatttctt aatgggttga ctaatgatat 300  
ccgtgatatt gttgagttgc aagagtttgt tgaaatggat gattcgcttc aaaaaacaat 360  
ccaagtggag caacaat 377

<210> 10074

<211> 394

<212> DNA

<213> Glycine max

<400> 10074

agcttcggaa ttccatttcg agcaactcga tatattacgg gactcaatca gacatttaag 60  
tgacaagtta ttgtcgtttg aatttgctca gagcttcaga attccatttc gagaaactcg 120  
atatattaca ggactaaatc agacatccga gtaaaaaatt attgtcgttt gaatttgctc 180  
agagcttcgg aattccattt cgagcaactc gatatattac gggactcaat cagacatccg 240



agtaaaaagt tattgtcgtt tgaatttgct cagagcttcg gtattccatt tcgagaaaact 300  
cgatatatta caggactaaa tcagacatcc gagtaaaaaa ttattgtcgt ttgaatttgc 360  
tcagagcttc ggaattccat ttcgagaaac tcga 394

<210> 10075  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 10075

ctacgtgata aaacctaaat gtaaataaaa ataaaattat ttttttataa aaaatctcat 60  
acattatatac attataattt tttatggaaa tcattatttt tttttttgca aaataaatat 120  
tgaaacaaaa ttaagaaaat gaatgaaaaa atgtaaattt aataacacat actcaaacga 180  
ttaaagtcg atacaatatt atacccatgt taatttgaag atgtcataaa agatttaatt 240  
gaaattgaga atattttaa atattaaatcc atatttactg actttcattg cttaaataa 300  
ataaattagt gtgagttaaa tttggaatga aaaaaaagg tggacatcct ttaactagca 360  
cggatactct cactcaacaa ctatctttta tataatatat gatctg 406

<210> 10076  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 10076

agcttcacca tcagatggat gacatatgat ggtcagggcc ctttgattct cactatgcc 60  
tctcatgtga gatgtggtgg ccattgaaga gtacaatctt tgaagtcttg gaattagagg 120  
aaaatatcac attttttaat caaaattttc ttttcaatcc ctttcattgt gatagtcag 180  
tactgaccct tttgatagac aaagcaattt gttatgcttt tatctgggtt tttttccag 240  
tagcatgtca cctacatatt gagataccgt tctgacatat tataattaga tttgaagctt 300  
atagcttcca aagtatctaa caattctttt ttattctcac atccttccca tagaggtgtt 360  
tgagaaacat caagcatata aaagaattct tgagc 395

<210> 10077  
<211> 391  
<212> DNA

<213> Glycine max

<400> 10077

agcttccaag aatcaagatc aagatttaag aatcaagaaa agaattaatc aagatttgta 60  
tgaaaaagtt ttttcaaaaa ctgactagca catggatttt tctcaaaaca tgtttaccaa 120  
agagttttta ctctctagta atcgattacc agattgttgt aatcgattac cagtagcaaa 180  
atggttttca aaaagctttc aactgaattt acaacgttcc aattgatttc aaaatgttgt 240  
aatcaattac aatgttttgg taatcgatta ccagtgtgct tgaacgttga aattcaaatt 300  
caaagtgaag gagtcacatt ctttcacaaa aaagctttgt gtaatcaatt acactgattt 360  
ggtaatcgat taccagtgat agtttctaaa c 391

<210> 10078

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10078

tccttaagaa gattcctaaa gaagctagag cttagctaca cacacctctc taatagctaa 60  
gctcacctca ttgagatgag aagctagagc ttagctacac accccctata ataactaagc 120  
tcacccccat ggcaaaatac atgaaaatac aaaaaaaaaa tccctactac aaagactact 180  
caaaatacct cgaaatacaa tgctaaaacc ctatactact agaatggcca aaatacaagg 240  
cccaaacaaa ggaaaaacct attctaatat ttacaaagat aagcgggctc atacttagcc 300  
catggactca aaatctaccc taaggctcat gagaacccta gggccttccc ttggatctct 360  
ggtccaatct acttggagtc ttttatccaa tgcccttgcg gggtaggatn gcatcattcc 420  
ctccaccttg gaaaggattt gacctcaaat ctt 453

<210> 10079

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10079

ctgagccaat tcaaacgaca ataactttnt actccgatgt ctgattgagt cccttcatat 60

atcgagacgc tcgaaattga atgttgaagc tctgagccaa ttcaaacgac aataactttt 120  
tactcggatg tctgattgag tcccgtaata tatcgagacc ctcgaaattg aatgttgaag 180  
ctctgagcca attcaaacga caataacgtt ttactcggat gtctgattga gttccgcaat 240  
atatcgagac cctcgaaatt gaatgttgaa tctctgagcc aattcaaacg acaataactt 300  
tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgnctcgaaa tgaatgttga 360  
agctctgagc caattcaaac gacaataact atttactcgg atgtctgatt gagtcccgta 420  
atatatc 427

<210> 10080  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 10080  
agcttcaact ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacattcgag 60  
taaaaagtta ttgtcgtttg aattgggtca gagcttcaac attcaatttc gagcgtctcg 120  
atatatgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatcggctc 180  
acagcttcaa cattcaattt cgaggggtctc gatatattgc gggactcaat cagacatccg 240  
agtaaaaagt tattgtcgat agaattgggt cagagcttca acattcaatt tctagcgtct 300  
tgatatatga cgggactcaa tcacacattc gagtcaaattg atattgtctg ttgaatcggc 360  
tcagagcttc aacatt 376

<210> 10081  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 10081  
tgctgaccca tggcagcttc tactatctcc cacactctgt gtggtggtcc atactcgtat 60  
cgtcttgagc gtctcaagag ccaactgggac cccattttcta ccaactacaa aacctgaaaa 120  
aactatatta tctacacagc aaagtacact tctctatatt tgcttatagg gtgatgttcc 180  
taaggactga aagaacttga ctgagatgta ctaactgate atctaggctc ctactataca 240  
ctaaaatatc accaaaatgt acttctacca atctacctat gaaattcctt aagacatgac 300

ccataagcct cataaaggag cttggtgcat tac

333

<210> 10082  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 10082

agcttgacaa gccggcttgt ttaactaaca atattaataa caacaacaac aacaacaaca 60  
acaacaacaa caacaataat aataataata ataataataa taataataat aactttattt 120  
tatcaaactct tatcttattc agattttatt ctatctagat tttattttat cccaatttta 180  
ttccatctag attttatttc gtctcgattt tatttcatcc aatcttatct tatcttgtgc 240  
agattttatt ttatttcggt tatgatcttg gacttaaaat agattagtga gctttgggac 300  
tgatgaccta tataacaaca ccaaggtttt agtttaggga gtattttttc ggagaggaga 360  
ataattctag gatttttagaa tt 382

<210> 10083  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 10083

tgatcgtctc gatatattat gcgcctgaat cgcacatccg agttaaaggt tatgaccttt 60  
tgaatatctc gagagcttcc attgttcaat ttcgagcgtc tcaatatatt atgcgcctga 120  
atctgacctc cgtgtggaaa gttatgacca tttgaatttc tcgacagctt ccattgttca 180  
atttcgagcg tctcgatata ttatgcgcct gaatcggacc tccgagtga aagttatgac 240  
catttgaatt tctcgagagc ttccggttgt caatttcgag cgcttcgata tattatgcgc 300  
ctgaatcgga catccgagtg aaaagttatg accattttta ttgctccaga gctttcattg 360  
ttcaattttg aacgtctcga tatattatgc gcctgaatct gaccttcgag tggaaagtta 420  
tga 423

<210> 10084  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 10084

agcttttgag caattcaaat ggtcataact tttcactcgg aggtccgatt caggcgcata 60  
atatatcgag acgcttgaaa ttgaacaacg gaagctctcg agaaattcaa atggtcatta 120  
cttttcactc ggaggtccga ttcaggcgca taatatatcg agacgcttga aattgaacat 180  
acggaagctc tcgagaaatt caaatggtca taactttcaa ctcgagggtc cgattcaggc 240  
gcataatata tcgagacgca cgaaattgaa caacggaagc tctcgagaaa ttcaaattgt 300  
cattactttt ctcaccgagg tcagattcat gcgcataata tattgagacg ctcgatttta 360  
acaacggagc 370

<210> 10085

<211> 391

<212> DNA

<213> Glycine max

<400> 10085

agcttcaaga attatggcct catcaaacta cttgtttccc gagggaaatt ctataaacag 60  
acctcccatc tttaatggag tgggttacca ctactggaaa acctgcatgc aaatctttat 120  
agagacaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180  
aatagccgga agtgcaacaa tagaaaaacc tagagtagat tggactaagg aagaaagaag 240  
attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaataaatga 300  
atactttagg gtttcaaatt gtaaaagtgc taaagatatg tgggatacac tacaagtaac 360  
acatgaaggc acaacagatg ttaatagatc t 391

<210> 10086

<211> 456

<212> DNA

<213> Glycine max

<400> 10086

gctaataaat tcacttatgg attgaaacaa gcctcttgct aatagtatct aaaatttcat 60  
gagatcatca attcatttgg tttttaaaag aacatcataa atcaatgtat ataccaaaag 120  
gttagtggga gtaagatttg ttttcttgta ttatacgtga atgatatttt gcttgcaact 180  
aattataagg atttgctata tgagggtgaaa cactttcctt catagaactt tgatatgaag 240

gatatgggag agacatctta tgtcaatggc attaagatcc ataggaaaag atctcgagac 300  
 attttgggtt tatctaagag acctatatta acaaagtttt aaagagattt aacatgaaaa 360  
 attgttcacc aagtgtagct cccattgtga aagggtgaaa actcgatttg aattagtgcc 420  
 cgaaaaatga ttgagtgaga acacatgaag aatatg 456

<210> 10087

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10087

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 aagttattgt agtttgaatt tgctcagggc ttccggtattc catttcgagc gtctcgatat 120  
 attacgggac tcaatcggac atccgagtaa aaagttattg ttgtttgaat ttgctcagag 180  
 cttctgtatt ccatttcgag catctcgata tattacggga ctcaatcaga catccgagta 240  
 aaaagttatt gtagattgaa ttgctcagg gcttcggaat tccatttcga gcgtctcgat 300  
 gtatgacggg actcaatcag acatccgagt aaaaagttat tgtcgttaga atttgctcag 360  
 agnctcaaca ttcaatttcg agcttttcga tatattacgg gactcaatca gacatccgag 420  
 taaa 424

<210> 10088

<211> 381

<212> DNA

<213> Glycine max

<400> 10088

agcttgtatg ttacagtgc aacgattggg ctagagataa agatgatcgg aaaagtacca 60  
 atggatttgt gtttttcata gggaacacaa cgttcacttg gatgtcaaaa aagtttccaa 120  
 tagtcactct ttcgacttgt gaggcagaat acatagcagc tgcttcatgt gttttccatg 180  
 tagtttggct caggaatttg ttaaaagagt tgggcatgtc acaagaagag acaaccaaga 240  
 tttttgtgga taataagtca accattgctc tagcaaagaa tccagtgttc catgatcgaa 300  
 gcaaacatat tgatacatgt taccactaca taaggaagtg catagcaaga aaggatgtac 360  
 atatagaata tgtgaagtct c 381

<210> 10089  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 10089

agctttgagg ggatttttgg gcttaactgg ttactacagg aaatttgtga aagattatgg 60  
 gaagattgct aaaccactca gtgatttggt gaagaaagga gcttttaatt ggagtgcagc 120  
 ggcaactgag tcctttaatg cacttaagga cgcattaacc cactctccag ttttgacttt 180  
 accaaaacttt aaggaacctt tttccattga atgtgatgct tgcggaacag ggatcggagc 240  
 tgtgttaaca caagggaaac gtccagttgc atatttcagc aaagggtag ctacttcagt 300  
 ttttaagtaaa tctgtgtggg agaatgtgga tgtgattcag aatctatttc ctgaaattaa 360  
 ccttgagga 369

<210> 10090  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 10090

gagcaattcc cttatgttat caaacataaa aagggaaaag gtaatattgt agccgatgct 60  
 ctttctcggc gtcatgcatt actttctatg cttgaaacaa aattgattgg tcttgaatgt 120  
 ttgaaaagca tgtatgaaaa tgatgaaact tttggagaaa tttttaaaaa ttgtgaaaaa 180  
 ttttcagaaa atggtttctt tagacatgaa ggctttcttt tcaaagaaaa caaattgtgt 240  
 gtgcctaaat gttctactag aaattttctt gtttgtgaag cacatgaagg aggtttaatg 300  
 gggcattttg ggggtccaaaa gactctagaa acattacaag aacattttta ttggcctcat 360  
 atgaaaaagg atgtgtagaa attttgtgaa cattgcattg tat 403

<210> 10091  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 10091

agcttgtcaa acattggtaa agcatctata attcatttta ataaatctta ctaaacttaa 60

ctgagttttg tgccaacaac tataagaagg aatgcaactt aaaaaagaaa aatgcagttc 120  
aatcattctt tatecttgtg tttctttccg tccctcctaa aaacaccata tcacaaatga 180  
tgcaatctta ccccaacaagg gcattggata gaagactcca agaagattgg gccagagatg 240  
caagagaagg ccctaggggt ctcattgagcc ttagggtaga tttcagacc atggacaaag 300  
tatgagcccg cttatctttg tacatattag attaagggtt cattattttt ttttccttgt 360  
atttagggct ccataatata ggtaagggtac cctag 395

<210> 10092  
<211> 404  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10092

ttttactcgg atgtctgatt ggggtcccga anataacgaa acgctcgaaa ttgaatgttt 60  
aagctttgag ccaattctaa cgacaataac tttttactcg gatgtccgat tgagtctagt 120  
aatatatcga cacgctcgaa attgaatgtt gaagctctaa gcctattcaa acaacaataa 180  
cgttttactc ggatgtccga ttcagtgcg taatatatcg ggacgctcga aattgaatgt 240  
tgaacctctg agccaactca aacgacaata acgttttact cggatgtctg attgagtccc 300  
gaaatatatc gagacgctcg aaattgaatg ttgaagctct gagccaattc aaacgacaat 360  
atacttttac tcggatgtct gattgagtcc cgtgataat cgag 404

<210> 10093  
<211> 370  
<212> DNA  
<213> Glycine max  
<400> 10093

agcttaaaca ttcaaatttg agcgtttcgt tatattacag gtctcaatca gacatccgag 60  
taaaaagtta ttgttctttg aattgggtca gaggttcaac attcaatttt gagcgtctcg 120  
atatattacg ggactcaatc agacatccga gtaaaaagtt attgatgttc gaattggctc 180  
acagcttcaa cattcaattt cgagcgtctt aatatattac gggactcaat cagacatccg 240  
agtcaaaagc tattgtcgtt tgaattggct cacaggggtca acattcattt tccagcgctc 300



cgatatagta cgggactcaa tccaacttcc gattaataaag gtattgtcgt ttgattggct 360  
caagctttat 370

<210> 10094  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 10094

agcttctaata gatgttgcta tggtacatga tgtaaaaaag tgtccctcta ataaatttga 60  
aatgaaagat atgggttgagg catcctatgt gataggaata gaaatattcc atgataggtc 120  
acaaggattg ttgggattgt ctcaaaaagg atataccaat aaagtactaa agagattcaa 180  
attggaaaag tgctctacaa ggattgttcc aattcagaaa ggggacaagt ttagtcaaat 240  
gcaatgtcct agaaatgatt tggaacgaaa gaaaatggag tctatcccct atccatcagt 300  
ggttgggagt ttgatgtttg cccaaacgtg tacacgaccg aatattagtt ttgttgtagg 360  
aatgttgggt cgatatcaaa gcaatcctgg aatagaac 398

<210> 10095  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10095

tcattcttag aatgaagtat gtagcgatac atatatcgtg aataatcatc tataaagggt 60  
atgaagtatt tcggactatt ngcatccatg tctggacaac atatgtctgt atgtatgatt 120  
tctaataaat tagaactcct ctgtgcaccc tcttttagact tgttagtttg cttaccctta 180  
atgcaatcta cacaagtctt aaaatcagcg aaatccaaag tactaagtac tccttcattt 240  
actaatcgct tgattctttc aatagagata tgcctaatac tccggtgcca caacatagag 300  
gattctttat tcacaatata tcgttttaac ccaacagaaa cgtgcataga agtagcgtca 360  
tttttgcaat taatcgaata aagaccatca accaattgac cacaaccaat tatttcagat 420  
ttatt 425

<210> 10096  
<211> 248

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10096  
  
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 ccgggtgaca agtnatgacc atatgaattt ctogatagca ttcattgttc aatttcgagc 120  
 gtctcgatat attatgcgcc tgaatcggac ttccgtgtga caagtatga ccatttgaat 180  
 ttctcgaggg cttccgctga tcaatttcaa gcttctcgat atattatgcg cctgaatcag 240  
 acttccgt 248

<210> 10097  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10097  
  
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 ccatttgaat ctctcgacag ctttggttgt tcaatttcga gtgtctcgat atattatgca 120  
 tcttaatcgg acttccgcgt gacaagttat gaccattttt gttgctcgag agcttccgat 180  
 gatcaatata cagcttctcc atatattatg tgccatgaatc ggacctccgt ttgaaaagct 240  
 atgactattt gaatttctcg agagcttagg ttgttcaatt tcgagcgtct cgatatatta 300  
 cgcacttgaa tccgaaatta gtgtgacaag ttatgaccat ttgattttct cgagaacatt 360  
 cggttgtaat ttcca 375

<210> 10098  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10098  
  
 ntctcaagag acttctttga gaagctagat ccttatctat ccacaccct ctattaacta 60  
 aattaatttc cttaaaaata attacagatg aaaataacgc aacaaataat caaacatcaa 120  
 acataattac taataatata tagatatata tatatatcag ggtgttacia ttggaattga 180  
 tcttgatta gtgggctgaa ccataactaa aattcactaa tcataattac tgaaattttg 240

gctccaaagt ttgggtccac aaattcaatt tcaaattcaa gtaaaatttg aattgaaatt 300  
 caaatttccc tctaattttg tgtgacactt aggctataaa tagaggatcat atgtgcgcat 360  
 ttttttaact ttgatcattt gaatattaaa cttcagattt caaagctctt ntagagcaca 420  
 aaa 423

<210> 10099  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 10099

gatccttaat gcaccgtggc atgcacgctt gaccagtaat tactcgtatg gtttgacagt 60  
 tgaatccagg ttgttcttgg tgtggagatg atggtacagc cggcgaacca caagctgaaa 120  
 tttcttttgg cgaggccgcc atggaaaagc ggagcgtttg gaatgattta cctgatctca 180  
 gagaattatc ggaaaatgct gccgaaaaca ctaatgccat gctgatatta atttgaatga 240  
 agaatgtata ggggcgtgtg aagcaaccgt cgaattcatc ttggcttaac agtgaacgtg 300  
 ctattaatgt taactgattc gatagggcac ggctcagatt gcagtatctg ctataattcc 360  
 tctagcaaac aaatgcccat cttgccctc agttattcag actgatctgc atccaaagcc 420  
 tttgtgaaaa t 431

<210> 10100  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10100

gctggcttaa agatgtctct gattaattaa ttattttaaa actctagtga aatactaact 60  
 aaaaaaagaa acttataaaa tttcatataa atattgtaca aatccaaaaa taattgataa 120  
 acaaaatcat attgaattca agtcgttaaa gcacaaagta taataaaaga aaataaaaag 180  
 agcataatat taaaaaatgt atggattagg tcttcagcct caaagcttac aaatctatct 240  
 taagtctaag ccataaacg aaataaaata aaatctagac aaaataagat aagattggat 300  
 gaaataaaat ctggatggaa taaaatctgg ataaaataaa atctagatgg aataagatat 360

agataagata agatttgata aaataaagtt attattatta ttagttaaac agaccgactt 420  
atncaagctc aacaaacttt ttttatag 448

<210> 10101  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 10101

agcttgctct gtgccaagct ctggtcttgg gccttcctca tttcaattct ccctttgtca 60  
ttaaactga tgcttccggg attggtatgg gggccatcct ctcacagcat catcatcctc 120  
ttgccttttt tcagcaaacc attttgctcg aaactgctcc gcgcttctac ttacgtctga 180  
gagattgcta caatcattgt cgcggttaag aaatggaggc agtacctcct agggcatcat 240  
tttatgattc tcacagatca tcagagctta aaagagctca tggctcaagc tgtgcaaact 300  
ccagatcaac aaatttattt ggcaggctta atgggctttg attatacgat tcaatatcga 360  
gccgaaaag c 371

<210> 10102  
<211> 496  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10102

cttctcgctg accaaggaga attattntct gacccaagta gatattggag ttaggcagat 60  
ttctattctg atccaattgt aacaagacca ggcattcttt gttgtaagtg tggtcattag 120  
aatgcagatg tcagaattct gatatttctt agaggatcac tagtaaaagg atggattagt 180  
gtttgagaac agagggcata aggagattat tacctatact taataggaga tccacatatg 240  
gatattgtgt tctattagga gtgaatctct ttcattggaaa acctcatgaa gcaaaatgcg 300  
gttgcaaagt ccagagctga agcagaatat caagctatga ctctcactac ttgtgaacta 360  
atatgtctaa aaacaaataa atgactcatt aaagagctaa aattntgtga ggtangaact 420  
gagactaatn tgtgataatc atgcagctct tcatattaca tctaaccag ttttcgatga 480  
gcataccaca catata 496

<210> 10103  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10103

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 tatgtccacg aatcagacat ccgagtgaag tggtatgacc attcgaattt gtcgagagct 120  
 tccgttggtc aatttcgagc gtctcgatat attatgtccc cgaatcgaac atctgagtga 180  
 aatgttatta ccattcgaat ttctcgatag cttctgttgt tcaatttcga gcgtctagat 240  
 gagttatgta cccgattcga acatccgagt gaaatgttat gaccattcga atttctcgag 300  
 agcttccgtt gttcaatttc gagcgcctag attattaatg tccccaaatc ggacatct 358

<210> 10104  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10104

agcttgaaag tgggggtccc cttangttca tctgttggtt ggattgaact gcctattgtc 60  
 atcttgccag atagaacatg aagaatgatt actccaaatg tgtatatgtc acgtttctca 120  
 gtaaagcatc ttgtggtgat gtattcagga gctaagtatc ccattggcaac actaactttt 180  
 agagctaaga aaacaacttc atctgcaaga agcttaggta ttctagcatc tatgatcaat 240  
 aggttaaact atgctctagg agaacatttt ccaactgaaat attctgggtg actattgtag 300  
 gtttactttc ttatttgata tgaagatatc caatgcctgg tcataaatga ataacaaata 360  
 ccaaacaaaa aaaagaagca gatattatct acaactatta atatttt 407

<210> 10105  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10105

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tacgagacat cttgccaaac aaagtaaggt tagcgataac tcgcctgtgc tttttttttc 120  
catgctatat gtagcaaagt cattgatcct gtcaagtttg atgagttgga aaatgaggcc 180  
gcaattatac tgtgccagtt ggagatgtat tttccccctg ctttctttga catcatgatt 240  
cacttgattg tgcacacgt cagagaaatc aaatgttggt gtcctgttta tctacagtgg 300  
atgtacccga ttgagtata catgaagatc ttaaaagggg atacaaagaa tctatatcgt 360

<210> 10106  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10106

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gatcaaattg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggacaaaaa ggtgaagctt gccaccacgg agttttccga ctatgctctt 300  
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata 360  
tggaaggaga tgaaaaagat catgaggaag cggtagtggt cggctagtta ctcaagggaac 420  
tcgaaattca agctccaaaa actaaccaa ggcaacaagg ggggtgagga gtatt 475

<210> 10107  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10107

gacactatga aactcaagct tgaggatttc aaacgacttt aactntntac tcggnattct 60  
gatctagtcc cgtaatatat cgagacgctc taaattgaat gttgaagctc tgaccaaatt 120  
cagacgacga taaattctta ctcgatgtc tgattgagtc ctgtaataata tcgagactct 180  
cgaaattgaa tgctgaagct ctacgcaaat tcaaacgaca ataactttat actcggatgt 240  
ctgaatgagt cccgtaatac atcgagacgc tcgaaattta atgtggaagc tctcagcata 300

ttcaaacgac aattacattc tactcctatg tctgatagaa tcccgtaata catcgagacg 360  
ctcaaaattg aatgttgaag ctctcagcaa attacaacga caatagc 407

<210> 10108  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10108

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gagaaaagnn atagggcatnc gcatccgctc agagcatcaa cattcaattt cgagcgtgtc 120  
gatatattac gggactcaat ccgacatccg agtaaaaagt tattgtcgtt tgaatttgct 180  
cagagcttcc gcattcaatt tcaagcgtct cgatatatta caggactcaa tcagacatcc 240  
gagtaaaaag ttatggtcgt ttgaatttgc tcagagcatc aagattctat ttcgagcgtg 300  
tcgatatatt atgggactca atcagacatc cgagtaaaaa gttattgtcg cttgaatatg 360  
ctcagagctt ccgtattcaa attcgagcgt ctcgatatat tac 403

<210> 10109  
<211> 335  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10109

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tcacaagttc ttcgagggaa ggttggtggag gggcctcaac tgttggttgt ttctgggggtt 120  
gttgctgttg ttggattggt ggaggaatgt atggctctgct tgggccagca gcattttgga 180  
aggaaggagc angctgctgt tgttggtgct gagggctgga ccatctgagg ttaggggtgat 240  
tcttccatcc agggttatat ctgttgctgg agaggtcata attgttctgc tgtgggtgat 300  
tttgctgctg aggttgagga ggtctattgt aaata 335

<210> 10110  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10110

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attctcaaca gtcacatctt tttgtgtggt tcttgaatga gtatcatagg cctataaata 120  
tgtgacttga gacacgaatt tgataagagt ttttcagaac aaaaaggtct taccctctta 180  
taaagagaaa tcgtttttatc ctcttacaaa ttccttggcc aaattacttg tgattcaata 240  
aggaattatt tgaatgctca aattgttcaa tctatctctt tcaagagaga tttcttcttc 300  
tcttcttctt cattctgaaa agggattaag agaccgaggg tctcttggtg tgaaagaatt 360  
ctaaacacaa aggaagggtt gtctgttttt gtgtgntag aaactcgaaa aggaattaca 420  
agatagtga actctcaagc gggttgcttg ggact 455

<210> 10111  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10111

agcttccatt ttcaatttcg agcttctcgt tatattacag ttctgaatag gacanccgag 60  
ttaaaactta ttgtcatttc attttactca gagcttccgt tttcaattac gaacgtcacg 120  
ataccgtacg ggactcaatc ggatatccga gtgaaaagtt attgtcggtt gaatttactc 180  
agagcttctg ttttcaatta cgaacgactt gatatcctac gggacacaat cggacatccg 240  
agtcaaaaat tattgtcggt tgacttttct tagagcttcc gttttcaatt ttaagcgtct 300  
cgatatatta gagagctcaa tcggacatct gagttaaag ttattgtcgt ttgacttttc 360  
ttagagggtc cgttttgaan tcgagggtct cgatataata cagggtcaa tccgacattc 420  
cagntaaaag 430

<210> 10112  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10112

tactcaagct tactacactt ctgcgagtgt gattgagagc tgtcataatt cttattgatg 60



cagntatgtg aatgtacagt tagcaaagcc gatacattct atcgtttggt tagttgagtg 120  
cattgatgtc tatatcctac catagctctg ctttttatga cattcattat gatcatttga 180  
taggtttctt atgagattaa caaaagatga cagtgaggtc aacttagcta atggcgaagc 240  
agaacgtgaa tgtgcataat ggaaatgggc agaccctgaa gaagttattg agcagagtgt 300  
gtggaaaaaa ggagatttga aataggtgta attttntcc atttgaaaga ctaataatga 360  
atgatgactg attacaggca gtggactaca cgagaccaag ctatgaagaa gttatatgaa 420  
ccttcaagcc ttactttcaa gggagt 446

<210> 10113  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10113

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cattncttcc ctaataaata tcagctttgg caccaactnt ctcaactggc ggattcccag 120  
tgaattgggc aggtccatg atttgattga gcttgatctc agtctcaacc atctcaatgg 180  
gactgttcca cctgctatat acaacttatc ttcccttgct aactttgcct tagcttcaaa 240  
ctctttctgg ggtgagattc ctcatgatgt tggtcacaaa cttccaaaac tcatagtttt 300  
ctgtatctgc ttcaattatt tcacaggtag aattccaggg tctttgcata acctcacaa 360  
cattcangtc attcgtatgg cttccaacca tctggaaaga tcagtgccac ctgggttttg 420  
gaaatctcca tttctttgca cgtataacat tcngtataac tggat 465

<210> 10114  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10114

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gggctgctca aaaaaactaa ttnttaaaaa ataactataa ctagttataa aattataacc 120  
agttntatag ttatttttat ttcaaataac tgggttttat ttaaaaaaat acatatagtt 180

ataaaactat aactagttnt atagaaatga ttatttcaaa taacttattt ttattcattc 240  
atagccagtt atgtaattga ttttagatat aaccggttat aactagaatt ggaatgttgt 300  
gaagtagaga agaaggcact agaagcagag ttccaaccag tacttgatcg aatatatgat 360  
aaagagactg ctngcaagga gacactangt aaaacacagg atgagtctgc tagaatatct 420  
canactatca gaaat 435

<210> 10115  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10115

gcaattcttc tagacttaga gtgataacat gcagttctct tgatccctta tcttttactt 60  
tctcgttatg ccgagactcc gaaaccacaa caagttttat cttttccatg tactcgaaac 120  
aaaactcagt agcttctttc gcaatgtact tttcaacaat aaatgcttca ggacggtgta 180  
gattctttgt ataccctttt aagatcttca tgtatcgctc aaccgggtac atccaccgca 240  
aataaatggg accacaacat ttaatttccc tcaccaaag aacaattaag tgaaccgtga 300  
tgtcgaaaaa tgaaggagga aaatacatct ccaactgaca caagataata gtagtctcat 360  
tttccagctc atttaactta agaggattaa tgactntgct acatatggca ttgaagaaaa 420  
aacacaggca agttacggca tgcttgactn tcttagaaaa aatgtctctt atcgccacaa 480  
ctaacaat 488

<210> 10116  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10116

gaaaacggaa cctctcaaga cactcanatg gngttatact tgtgacacgg atgtctgatt 120  
acggcgcata aaatatcgag acgctcttaa ttgaacaacg aatgctctcg agaaattcat 180  
atggtcataa cttgtcacac aagagtccga ttcatgcgca tagtatatcg agaagattga 240  
tattgaacaa cggaagctct cgagacactc aaatgggtcat aacttattac acggaggtac

gactgatgca cataataaat cgagacgctc gaatatgaat aacgaatagt ctccagacat 300  
 tcatatgggtc ataaatgttg aaacggaagt tcgattcacg cgaatcatat atcgagaagc 360  
 ttgaaattga ataacggaag ctctcgagac atgagatggg ataacttgca cacggaagtc 420  
 cattcaggcg catctatatc aagagctcga aataacaatg aatgctctca gaattctat 479

<210> 10117  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 10117

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 acttgatggg ctctggatga cgatatggag actaaagtag tcttggtcga taggcattga 120  
 gtcttcgaca aagagtgcag acgaccatgt tgggtctctat gatgtagctc cattggagct 180  
 tgtaggccat ggatcttctt catcaatgga gtccattgct tcttgaattt taatggcagt 240  
 ggaatggaga agaagaagag ttgagaggag acgcctcttc atgaagaaga tgagtctaga 300  
 agaacctcac caccatagga agccatggat aagagcttga aagtatgaga agatgactgg 360  
 agggagaggg agagaagggg cacgaaattt tgtgcctcaa atgatgtcta aactttgaag 420  
 tgtaattctc acatgatcaa agattgaaaa atg 453

<210> 10118  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10118

agcttctntg agaaaacttc cttgagaagt tatagcttag ctacacacac ccctctcata 60  
 actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc tagagcttag 120  
 ctacacacac ctctctaata gctaagttca ccccatgac caaaaaacat gaaaatacaa 180  
 aaaaaaaagt ccttactaca aagactattc aaaatgccct gaaatacaag gctaaaaccc 240  
 tatactacta gaatggccaa aatacaaggc ccagacgaag gaaaaaccta ttctaattatt 300  
 taaaagata agcgggctca tacttagccc atgggctcga aatctaccct aaggctcatg 360

agaaccctag ggccttcctt tggatctcta gcccaatcta cttggagtct tcta 414

<210> 10119  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10119

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agaaattnga atggtcataa catttcactc ggatgttcga tccggggaca taatttatcg 180  
agacgctcga aattgaacaa ccgaagctct cgacaaatta gaatggtcgt aacttttcac 240  
gcgaatgttc gattcggggg cataactcat ctagacgctc gaaattgaac aacggaagct 300  
ctcgagaaat tcgaatgggc ataagttttc acacggatgt ccgattcggg aacataatat 360  
atccagacga tcgaaattga acaacg 386

<210> 10120  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10120

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agatgaaata atatctagat gagatcaaat ctaaataata tctagataag ataaaatntg 120  
gtagaataaa atagtctgct ctcttcaagt ccaagcccaa ttgcttataa ttctcctgaa 180  
attaaattaa aaacacaaaa ttaatctagt aggcctaaat gataaaaactg cataattaat 240  
ttgataatta agactaatca gtaattaaaa tgggtcaaaa aggggttaaga aataggagaa 300  
aataatggca catcagtgag acatgaaaaa agatcatgga actcacaaag caagaagggg 360  
gagaattagt tctaaatcaa atcaaacc aaataacgag tttgagaaac tttctatcca 420  
aggatcgtat cacannattg tgctaanaag ttctntaaac ttcagcaaat tgatcaagaa 480  
tacaatg 487

<210> 10121

<211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10121

gcttcatgct taactatgta tggcaaaact ccattactgt tggtatgaca tacaagtgag 60  
 tttgtaacaa atcttctaca cttggagtga tcacctgcag tcctcttgaa cccttaccac 120  
 ccactctgtc atcatgccaa gactcaggaa gccaacagc ttagccttc tctaagtatt 180  
 ctgaacaaaa ttcaatggct tcttctgcaa tgtacctctc aacaatagat gcttctggac 240  
 gatatagatt ctttgtatac ctttttaaga tcttcatgta tcgctcaacc ggttacatcc 300  
 accgtagata aacaggacca caacatttga tttctctgac cagatgcaca accaagttaa 360  
 tcatgatgtc aaagaaagca gggggaaaat acatctccaa ctagcacagt ataattgcgg 420  
 cctcatttcc caactcatca aacatgactg gattaatgac tntgctacat atagaatgga 480  
 agaaaaagca caggcgagtt atc 503

<210> 10122  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 10122

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 attctctatc tcccttagct ataatacatg ttgatatttg gggctccctgt tcaaccactt 120  
 ctatacatgg tcataaatat tttcttacta ttgttgatga tcataactaga tttgtttggg 180  
 ttataccaat gtcttctata gctgaaactc aatctctttt acaaggtttt attaaatctg 240  
 ctgaaaggca atttgataca aaagttaaag ttatttgctc aaataatggt gatgaattta 300  
 tcattagtca tttctttcaa gccactggta ttattcatca aacaacatgt gttgaatact 360  
 cccaacaaaa tgggattggc gacaaataac atcaacatct acttaat 407

<210> 10123  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10123

agcttatntt agtccatata ttgttttctt tattttacac actatatttt cctctcctgt 60  
agaaacaaac cctttgagtt gattcatata aacttcttct tctaagtcac cattcagaaa 120  
aggcggtctt tagatccatt tggatgaagct ccaaatacaa tgagccacta aagccaacac 180  
aagccacaaa gagtccttct tagaaacaga agagatagtc tctttgtagt tgatgcaatc 240  
ctatcccgca agggcattgg atagaagact ccaagtagat tgggccagag atgtaagaga 300  
aggccctagg gttctcatga gccttatgat agatttcgga cccatgggct aagtatgtgc 360  
ccacttatct ttatacatat ttgattaaga ttctattatt ttggggcctt atattt 416

<210> 10124

<211> 454

<212> DNA

<213> Glycine max

<400> 10124

agcttaagaa aaagcgatga tttggggcct tgacttatac tactcttttc ctaaataata 60  
acaaaattaa ctaactttta tgctaattaa gttagtaa atcatcta tccactaatt 120  
acatttaaga aacaaacttt tttcctaaaa tacccttcaa tggaacctaa tatcaaggac 180  
aaaaggagtc attggaaata gaatctgaat taattgaagg gtatttttga gatagtatca 240  
ttaaataggg tggaagtagt taggatttac ttatatgtgt caaaaaagg tttttttttt 300  
gttgcttaaa attgatccgg aggagtaat acttattcta aggacttcat cattgtattt 360  
gaaaagaaca atataaagaa tcctaccgt cggtggttct ggtaatagat atcaagttgg 420  
gtctggtaat agttatcaag ttgataatag atat 454

<210> 10125

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10125

ctgaggcgtg caagcttagg agaacgatct tggaagaggg ccttaaagtgn tttatgagta 60  
tccacctggg agcgactaag atgtactacg accttatgca gatgttttgg tggccgggta 120  
tgaagagaga agttaatgag tttgtccttg cgtgccta atgtgcagaca gctaagatag 180

aacaccaaaa gccttttaggg tagctgcaac ctttagagat acttgagtgg aaatgggata 240  
 acatcttcat ggatttcatg gcgggggttg ctaggacccc caaagggtta gattccattt 300  
 gggttattgt agacagggtg acgaaatctg cttacttcat cctaattaac atcatatatt 360  
 cctta 365

<210> 10126  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10126

agctttcaga attcgaaggt tttcgtttta cacagatgnc caanncgggg gcataatata 60  
 tcgagacgct cgaaattgaa caacggaagc tctcgagaaa atcgaatggg cataactttt 120  
 cacacgaatg ttcgattcgg ggacataact catctagacg ctcgacattg aacaatggat 180  
 gctctcgaga aattcgaatg gtcataagtt ttaacacgga tgtccgattc gtggacgtat 240  
 tatatcgaga cgctcgaaat tgaacaacgg aagctcccga gaaatttgaa tggtcataac 300  
 atttcaactcg gatgccccaa ttcggaacat aa 332

<210> 10127  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10127

acctgcggca tgcaagcttc tcanagaagc ctctcaagga agcttctcat acttatctac 60  
 ctaaacctat ttcggtaaaa ttgttctccc ggattcgtta accggtggat catcttaaaa 120  
 tcttttctgg aggttcctag gacaactgtc cacagtttga ctggtgcat ttgcaatata 180  
 acatttggtg tgtgagatat gaatttttta cggaagcaaa aaatttgagt gttgcaggct 240  
 ttaaattagt gagattgtca gattaaccgc cttgtatatt tatgagattg tcagattaca 300  
 tgggtgtgcca tctagcatag tgtctgatag agatcctagg tttacctcta gattntggga 360  
 gagcctgaac agagcattgg gaaccaagct tagactacgt tcaacttacc atcctcagat 420  
 tgatggccaa actgaacgga ccattcagtc act 453

<210> 10128  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10128

ntgngctcaa tagctccaat aacgtctatt ccctatatat attacggcca aggcaactgcc 60  
 aagatgttca aaggtacaag cgaagcattg acattatcaa cgaaggcctg gcacttgtgg 120  
 cactttctca cacaacaatc attttccata gtgagccagt aataccctgc cctcangatc 180  
 ttccggggcca tggcatgtcc gttggcatgt gttccaaagg atcccttatg cacttccatt 240  
 agcatctgct cagcctccct ggcataca caatcgagca aaaccaaata atggttcctc 300  
 ttgtacagga tatttccact tangaaaaag tcggctgcca acctctgcaa cgttctcttg 360  
 tcattgtcgt tggcatgtgt tccaaaggat cccttatgc 399

<210> 10129  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10129

cttcaatcaa tctttggcta tctacattag tgcaactact cncatcaata accaaagagc 60  
 atatcttctt catgatcatg cacctaggat gataaatgtc ctccctctga gttgcgtctc 120  
 tatecttaca cacactcccc attaacctcc taaccatcaa aagatcacct tccaggggct 180  
 gtacatcaca ttcactttca ctctcactag aacaactaga agagctagaa gaagatgcac 240  
 tagtgatata ccattaccc aacacaacca tagtcctttt gttaggaaat tgggaggcaa 300  
 tatgacccta tcctaaatac ttaaaacatc taatagaact cacctttaa gaagtgggag 360  
 taggggtaga attatntgta ccaagggcaa tactgatttc atg 403

<210> 10130  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 10130



cacacacaca aacacacgca cacgcgcata ctctcactga cgcacacaca catacacagt 60  
cacacagtga gacggacaca ctcacacaca cgggtggaaga agaatgatgg tttcgatctg 120  
gataccgaga aatgacctgc agatgtcaga ctgggactat gcagagatag aaggaataca 180  
catggctctt taagcactca acacagttca tgagccgttc tact 224

<210> 10131  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 10131

ttacaaaagca ttcattgtag ttcctacgta tattatTTTT atcttttttg atattacact 60  
ctaaattgat atagactgat aaacaaatta aaaatagtat ttatattatg agacctattc 120  
ttaaattggat agattaaaag gtgcaatgta tatatacaac tatgaagatg atatcaataa 180  
tttaatcata tttatatgta acattgatca tgtctatttg attcataatt aattgaatat 240  
ctcgaagaat ggatcatgatt agttgataac tatagcgagg taaccaatat tattaat 298

<210> 10132  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10132

ntccttgccc ctgatatat ttgagggact catggctact atgaatgaca aattccttgg 60  
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
aagttgaata gttaagggtg gggaccactt aacttttcac taaaataagc aatgggatgg 180  
cttcttgat taacacagcc ccaatcccaa catttgaagc atcactca atttcaaaag 240  
atTTTTgaaa gtttggaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300  
tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac attnttcttg agcacttcat 360  
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420  
catgaaaac 429

<210> 10133

<211> 318  
 <212> DNA  
 <213> Glycine max

<400> 10133

agcttctggt tcaataacga gcgtctttta tattactggc ctcaatccga catcggagta 60  
 aaatggttatt gtcgtagaa ttgctcaga gcttctgttc tgtaattga gagtctcgat 120  
 atactacgga acacaatcgg acatctcagt aaaaagttat tgctggttga atttgctcag 180  
 agcttctggt ctttaattacg agagtctcga tatattacgg gattcattcg gacatccaag 240  
 tataaaagta ttgccgtttg aattgctcaa agcattcttt gtcaattacg agcgtttaga 300  
 tatattaccg gattcatt 318

<210> 10134  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10134

tacgcgacac tatgaaactc agcttaaggc aatccttctc tgctgatgtc cactactgta 60  
 tctgttccaa atgttgagtt tcctacttca gctgctactg tcaataatac ttctaataatt 120  
 gtttcaaatt ctaatgttac cttttctagt agtggttaatc tttggcatgc taggtagga 180  
 catcctaatt atcatgtaat gaaaattggt ctcaaatagt ataataattc tcaactgaat 240  
 aaaaacatca cagagttttg ttctctctgt tgtatgggtc aagctcatag gttacccaaa 300  
 gaaatttgat tataatttaa ttctgtggcg tcataagttg aaagttcata ttcttcggtc 360  
 attgataaac aatttggttg acaatattca ataccatgtt acctcaactt tngtttattc 420  
 atcttttagaa ctcatntca ctaacctatg gngaaccctc catgtacctc ttatgttgct 480  
 a 481

<210> 10135  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 10135

agcttgatat taaacaacgg aagttgtcta taaattctaa cggtcataac ttatgacacg 60

gaagtccgat ttagtagcat aatatatcta aacgctcgaa attgcacaac ggaagctctc 120  
gacaaattaa aatggtcata acttggcaca cggatgtccg attgtggcgc atgatatacc 180  
gagacgctcg aaattgaaca acgaaggctg tcgagaaagt taaatgggtca taacttgtca 240  
cacggaagta ctatatcgac gcaaaacata ctgagacacg tgcaatttaa caacggaaac 300  
tggtcagaaa ttcaaatggc cataac 326

<210> 10136  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10136

agcttaacag caataaaaag catcaaagtt attcaaagat ttactcacat taactaccac 60  
aagcacgatt gacagtgaaa aatcataaga tttgatttaa tgcctaattg cacacctgac 120  
atccagtaga tcaactctaa ctcatgatga taagaaagga aacatgcaca acaacaattt 180  
cattaccttc ctctaataag agctgaattg atctcttctc taactcaaca gcatgcttgc 240  
taagttcaac tgaggacagg gagcgaagca ctgccaaagg atgagatatac agctatataa 300  
natatcaaga acttcataag aaagctttga gggattatct aagggtcctg acatactttg 360  
atatatcttc ttgtctgatt ggcccaattc tcaaaacatc tgcaattggt ggatcgctc 419

<210> 10137  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 10137

agcttcattc tacacctgaa aaagaggttt agttatttgc acaaaagaga aagcttccta 60  
acaaaaaatt tcatgcagat ggaccttctt ctagtaattc tgacttacia tagcctcata 120  
tccttcttcc attccacct agagcgattc caaacaacaa gatggaagaa gtggaaaagg 180  
agatctttga gaccttcagg aaagtagagg tgaacatacc totattagat gccatcaagc 240  
agattccaag atatgccaaag tttctaaagg agttgtgcac ccacaaaagg aagctcaaag 300  
gcaatgaaca gattagcatg gacagaaatg tgtagcatt gataggtaaa tctgttctc 360

acattcctga gaaatgtaag gacccaggta ctttttgtat accttgcatt attgggaata 420  
gtaaatttga gaatgccatg ctaga 445

<210> 10138  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 10138

tgagaatgga gaattgcact aagcaatcac tacgcatagc ttcattctcg aaggtggagg 60  
acacatgaac gaaaacgcaa ttcattgggtc tccgaaaaga ttgagaatgg agaattgcac 120  
taagcaatca ctacgcatag ctccaaactc gatgggtggag gacacatgaa tgaaaacgca 180  
attcatgggg ctccgaaaag atggagaatg gagaattgca ctaagcaatc actacgcata 240  
gctccaaact cgaaggtgga ggacacatga acgataacgc aattcatggg gctccgaaaa 300  
gatggagaat ggagaatggc actaagcaat cactacgcat agctccaaac tcgaatgtgg 360  
aggacacatg aacgataacg caattcatgg 390

<210> 10139  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 10139

gattatgccc tgagctgtag acttgtgaca ctacattaat atttcataat taattaaaat 60  
tatattttga aaaattctat aatgcgctta agttcgatac tgattactta actttagaaa 120  
attaatctga taagacattc tgacgtgctt ttttttcacg agtcttataa taactataat 180  
cttcagaact aatgtaagtc aagtataaaa ataataagatt atataaatat gatttagata 240  
aattatttat gattcaaaat caattattta actaccaatt aatctaatta ggtcaatttt 300  
acaactctac tcctaattgga ccaatattaa ctatattatc tataattaac caatttctat 360  
aaaatattat gtcttgatat ctgaaccaat ttattacaac tcaaactaat attttaat 418

<210> 10140  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 10140

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tgtgtcacac tntcaattgt cgaagctgaa tacatttctt cttgaagttg ttgtgctcaa 60
agtctttgga tgaagcaaca atgatgtaag ctccattgga gcttgtaggc ctatgatctt 120
cttcatcaat ggattccttt gcttcttgga agatgaatgg cagcgggaatg gagaaaggaa 180
gagagagagg agacgccact tcaaggagaa gatgagtcta gaagaagctc accaccatag 240
gaggccatgg ataagagctt ggaggaagaa ggagatgaat gaagggagag ggagagaaga 300
gcacgannat ttgtgctcta aatgagctct gagatctgaa gtttaatat caaatgatca 360
aagttgaaaa aaatgcacac acatgacctc tattatagcc taagtgtcac acaaat 416
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<210> 10141  
 <211> 432  
 <212> DNA  
 <213> Glycine max

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<400> 10141
aagctttctta tttagatgat gctattgttt gtagctacct catgcactcc tctaatact 60
atggcatcat ttctggcgct aaactgctgg gagttggagg ccatcttctc aattaaattt 120
ctggcttcag caggagtcac gtctccaagg gctccaccac tggcagcatc tatcatactt 180
ctctccatat tactgagtcc ttcataaaaa tgttggagaa gaagctgttc tgaaatctga 240
tggtgagggc aactggcaca tagtttctta aatcgctccc agtactcata caggctctct 300
ccactgagtt gtctaatacc tgagatatct ttctgatgg ctgtggctct ggaagcaggg 360
aaaaaatttt ctaagaatac tctcttaagg tcatcccagc tcgtgatgga ccttggagca 420
aghtaataca ac 432
```

<210> 10142  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10142

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gatctctaag tcacgctgct gcagcttgcc aaaaggtttt gtttcttttc tttanagcc 60
aaagatgctg ttgccacttc tatgcctga gagcttctac accttgactt gtttggacca 120
```

accacaactg catttttttc tggacacaca tattgtctgg tcatattgga cgattacacc 180  
 aaatggacat ggggtcaattt tctaacctac aaggatgagt attttgatac cttttataaa 240  
 ttacgtaaaa atattgaaca tgaaagaaat aattgtattt tttcaatcaa aagtgatca 299

<210> 10143  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10143

actcaagctt agaatgcaga agaagcaaca acaatcaatt taanattggt ctataaacat 60  
 gcaaggcaaa aatgatggca ataacataaa tgagataagg gaagagagaa tgcaaact 120  
 tatttatact ggttcggcca cttcccgctg ctacatccag tactcaagca acccacttga 180  
 gatatccact aacttgtaaa ttccttttac aagtactaaa cacacaagga caacccttcc 240  
 tttgtgttta gagattcttt acaacatgag actcacagtc tcttaatccc ttagagaatg 300  
 agaagaagaa tatgaaccaa tctctctaca agagatggat gtacatatga gcaactcaatt 360  
 atttcttatg aattcaattg aatggccaac gaattttaaa ggataa 406

<210> 10144  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10144

cactatacga aactcaagct ntaggctctg cagtntatct tattaataga gngcctttat 60  
 ttgtgnnaat ctttaagaga cctcttgata ccctttctca tcatttcacc cttaattttg 120  
 tcaatcattt accaccctat attttttggt gtgccatata tgtgcatttg catcctcacc 180  
 agcggaaaaa attagaatct agagtaatga aatgtgtttt tgtgggatac aacaccactc 240  
 aaaagaagta ttaggccaat catccatcta caaaaaaaaaa ttgcatcaat ggatgttaca 300  
 tttcatgagc atgaattgat tttcccttg aatacacttc attcttcacc ataaagcgag 360  
 ggggatgggg gtgaggtggt ttcctaagaa aaatacaatg 400

<210> 10145

<211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10145

ctttgtnttt tggagtgtaa gagggcatga aaatgatagc ttgttggtga ggttccctct 60  
 ttaggccaac atttggtag ggttgtagca tgttgattct tcgcacctag atgatgtgaa 120  
 aatattgttc accatgtatg tgtgtatata tatagcatga aattgactgt caagtgtgta 180  
 tatatagcaa aaaaaatgcc acccaaaata gagtaaagt aggtagcaaa aataccttgc 240  
 caatttgtat atgtgttttag ataggttagca aataccttat aaatatgtat gtatgttgat 300  
 ataggttagca aaatacctgg aaaatatgca tgtgtgttga tatangtagt gaaaatgtct 360  
 tgcanatatg taggtatgtt cataaaatgt ttctcttcaa gaaaaaatg tgt 413

<210> 10146  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10146

gctgaagttg tacatgacca atcttttagta atcgctttac tttttgcagt ttttgtattc 60  
 gnttaaaatg catgaagata gatcagtagg agaacaattg gatttgttta ataaactgat 120  
 tctagatctt gaaaatattg atgtcactat tgatgatgag gatcaagctt tgttattgtt 180  
 gtgctatttg cctaagagtt actctcattt caaagagact ttattgtttg gaagagattc 240  
 tgtttctctt gatgaagtgc agactgctct gaattcaaag gaattgaatg aaagaaagga 300  
 aaagaagtcc tctgcaagtg gtgaatggct gacagcaaga ggcaagacct tcaagaaaga 360  
 tagtngaatt gataagaaga agcanaagcc agaanatcag aagaatggtg aatgaaacat 420  
 cttcaaaatc agatgttatc ac 442

<210> 10147  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10147

agcttatgaa ctcnagaag ttatatgtta ctaatgtaaa aaaagggatc taaatcgaag 60  
atgcttaacc cattatgatt tctgaatgtc atgctcatcc acacctacac aatcccatgc 120  
aatcgcagct taaaaatata tagtaactat gttgactttt aattctacga aattctattt 180  
ttttattaga aaacagtacc aaaagtactt aaggaaatgc atgtaagtta tgtcttttat 240  
gaattttgat taaaaactct ctttatttca aagacattcc ttatttacca attaattata 300  
tgacatccct agttgccatg gccaatatgt cagcacttga aaccttattc tggcagcgag 360  
gtacactgtc aaccgcagca ttggctttga tcacagtgtc aaacccatca ccagctagca 420  
ccacagaagc a 431

<210> 10148  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 10148

agcttataga atatataata aatttctttg acttttgaaa agtctataca tgtttccttt 60  
gatgagtcta atgtcattct ttcaaggaag gatttttttag ataatatctc aaattcctta 120  
gaagatacac atatttatgg aaatgactct aaagaaaaag atgaaggaag caatgaggat 180  
tctcaagata atggggctag aggaaataat gaacttccaa gagaatggaa agcctcaaga 240  
gatcatcccc tcgacaacat tattggtgat atatcaaaag gggtaacaac tagacattct 300  
cttaaagatt tatgcaataa tatgactttt gtatctatga ttgaacctaa aaatataaaa 360  
gaagccatag tagatgataa ctggataatt gccatgcaag aagaactgaa tcaatttgaa 420  
agaaataatg tgtggaaact 440

<210> 10149  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10149

actcagctng acaaccggct tgtttaagta ataataataa taatatatta ctattatcta 60  
taccattntt atgacattat gaatgacttc atgaattgag ataaagtgtc taaagaattc 120



acttgcattgt gaaaaatttt caaaaagaaa aagactcaag ttaaaaggat aatgcaacca 180  
gattaatact ttcaaagaaa aaaatgtttt gtaaagacat tttcagacaa tttaaatatt 240  
tttatttgac tatattagta taaatcatct ctaatccatg tattttttta tattatactc 300  
tctttttcat tttcttttga tatactntgt gtttaaataa cttgaattca atatgattnt 360  
ggttatcaat tatntttgaa ttggatatta cttatacgaa aatntataag tttctttttt 420  
aagtagtatt tactaggtnt ataaa 445

<210> 10150  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 10150

gagctttcac ctctacatt gagaacaact accttctctt tatagctgct taatttaggg 60  
aagaactcct tcttatcaga aatcagataa ataataatgc tgccatcatc agtattactc 120  
catccaggca taacctcgct tacagaatca ttttaagatga agcaatcaag tgagtccaaa 180  
ctagcaattt tttgaagaac acttgccttg tcatatggaa ggccaacacc ataagaaatt 240  
ccactatgag ttctggacag gaagagtgtt cggatgagag actcagctac tggccggagt 300  
aaagaaacag ttttatcatc accactttca gccaaagagta ctgattcatc caataacacc 360  
cccctcacta taccatctg agagtggatg cagcactacc aaaacagaga atgagacagt 420  
tatcatt 427

<210> 10151  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10151

catgcaagct aattataact tacttgctgt taatatataa caattatcaa aatttaaata 60  
ttactttaac tatatgcaca aaaaattggg gaacaaaaat cattcaaat tattatatat 120  
gtacttgtca taattgagaa agaattgtaa taaatgcata gaaagaaaaa agagctttta 180  
atttcattta gacatagttt gcaagaaggc ggaaaataaa tgatgcaaac ttaaggatat 240  
tcatcattta gttactggct tttcatgtat aaaatccaac cttggaatag aatatcatac 300

attacacgca taggaattta attaatacag cacaaaatgt acataacaac aaaagaaatt 360  
gacatgctaa caagaaaact atgatnatat tgggtggcaac agtatataag tatgacatac 420  
tacatataag accttctatt ttat 444

<210> 10152  
<211> 379  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10152

agctttgaaa aacactttnt attttaaatc acttggccaa acctttgcta attcaattag 60  
gaattccctt cctaataattc tagtgatcat ctgatgttg tgacttgtaa tcttgaagta 120  
ttgtcttgaa ttttaattctt gaaaagccca ttgcatcaa ttgcaacaca tcatcatgat 180  
catcatcaaa acatcaaagc caattgcac tacacatgtg tcctccacct tcgagattgg 240  
agctatgttt cactgattgcc taagtgcgga ccctcaaggc aatccgcat tctccctttt 300  
tttttcggag acccatgaat gttattgcct agcgtattc atgtgccctc caccttcgag 360  
gttgagcta tgtttcatg 379

<210> 10153  
<211> 385  
<212> DNA  
<213> Glycine max  
<400> 10153

gcttcatggc ttactgagga tggagaagtg caagtattga attctgtgga gttggatatt 60  
tccattagaa agtataatga taagggtgtt tatgatgttg ttcctatgga ggccagccac 120  
ttactcttga ggggacctg gcaatttgat aagaggggta atcatgatgg tttaccaaac 180  
aagatctctt tcacgtatca aggcaaaaag atagtgtc aaccattgag tccacaagaa 240  
gtatgtaagg ataaaaaaaa atgagagaaa attcttcaag aaaagagaga aaaataaaaa 300  
gagagtcaaa cacttgagat ttaaaaagtg aagacaaaa gagggaaaca caagagagag 360  
aaaagatgag tgaaacactt tgagt 385

<210> 10154

<211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10154

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ntntattgta atcttgaaat tcaggacaac actctgattt ctgaaatttt tgggataaaa 60
atggtcattg atcattccct tctctctgac taaaccaa at taccagtgta cgggtgtacca 120
tttgaaggta cactgaatga cgactggaaa tttgatttct ctgcccataga tgcccggccag 180
ttggtttgca ccaacaatgt ggatatgacc ggacgtcttc ttgccgggtc attggctttt 240
gaaagccgca tccttcacta ttttaattgtg cgtattttgc ttccacgggc ttccaacctt 300
gcccgagttt ctgaggaaga tctaattatc atgtgggcct ttcatagagg gactcaactt 360
gactgggcac acttagtcaa atatcgcatg catatggcat tgcgaataaa tgcttcatta 420
ccatatccac agcttgtcac tc 442

```

<210> 10155  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10155

```

tatgcagtgc actttctgag tatggtgttc ttggatttga attgcgctac tccatggcca 60
atcccagttc atcgatgatg tgcgaggctc agctaggtga ttntgcta at ggtgctcatg 120
gcatatttga caatttcttg gcttctgggtg aggctaagtg gctccgtcac actgggctgt 180
atgtgttact tcctcatgtg tatgat 206

```

<210> 10156  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 10156

```

atgaaaggaa aagactcttg cagttgggtg gaacatatat cgacaagttt attgtttgtc 60
aaacgaacaa gactattact ttcttgtaaa tgtgtgagaa aatttttgga aagattcaaa 120
tgagcaagat atccaagttg cgaaatccag ttaggtattg gtccttcgat cccgttgtca 180

```

gatagatcaa gatatattaa tatggactga tttatcaaga aactaggaat tcgtctcaac 240  
 ttacaggaag ccaacattat atgcgtcata tgaggaaagg gtgacaggtc atgatcatcc 300  
 ctaaagttta tatcaactga caaattgtta tgtgagaggc ctagttcaat taaattactc 360  
 agcttgcgaa tcttgtccaa ttgtattgtg ccattaaact tatttgactt aagctgaatg 420  
 acacgaagt 429

<210> 10157  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 10157

agcttaggac tcaatgaagt ttattctttt tctgattatt atgatagttt atatactggt 60  
 tttccctttt ctcatagttt tcacagcagc agaaacttca tccatcacac aatcccagtc 120  
 cctcagttac agaaagaccc tagtttcccc aagtggaaac ttcgaactcg gtttcttcaa 180  
 tcttggaat ccgaacaaaa tctaccttg aatttggtac aagaatattc cacttcaaaa 240  
 catagtttgg gttgcaaacg gtggtagtc aatcaaggat tcttcttcca tcttgaaact 300  
 agacagttct ggcaatttgg tccttacaca caacaacaca gttgtttgga gcacaagtcc 360  
 tccagaaaag gcacagaatc cgggtggcaga gctcttggat tctggcaatc ttgtgataag 420  
 agatgagaat ggaggaaatg 440

<210> 10158  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 10158

gacaagtgga ctcatatc ttaagaagg gggggcagaa ttaacatatt acaaactatt 60  
 cccaattaa aaattctact tttaatttaa cccaacaacc caagattcct tttaacaag 120  
 aactcctaaa taataatgca aattaatctt actaaataaa aataataagc actaaatact 180  
 caagaagttt aggggaagag aaaatgcaca ctcatattta tactgggtcg gccactccct 240  
 tgagcccaaa tccagtcccc aagcaacca cttgagagtt ccactatctt gcaaaatccc 300  
 tttaacagtt ctgaaccaca caatgacgac ccttcctttg tgttcaaatt ttgttaca 359

<210> 10159  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10159

tagtacttgg aatttggact cactgtcgtt tagcctgttt atgcaaaggc aaanggnatc 60  
 tatcttagga cacaccctat tgagatttgt gtagttgggtg cacattctcc atttaccgtt 120  
 ggcctttttg actatgacaa cattgggtgag ccaaggagag taactaactt ctctgataag 180  
 ttgggccttg aggaacttgt ccacctctc cttgactgcc ttgcgatgct cttctactat 240  
 ctatctcttc ttctgtgaca ctggtttggc ctacgggcag atggcatgct tatggccttat 300  
 aatgccaggg tgaatactcg acatgttaga tggctaccat gcacatagga atgcatttct 360  
 gtgtgggaca ttagctatgc gtttatgcct at 392

<210> 10160  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 10160

agctattctt caacaaacaa atcaaaattt attttctgat cttcaaaacc tagctccagc 60  
 ttcctcttcc ccatatcaac tatgcagctt gtgggtcaaca tgaatgggtt tcccaatatt 120  
 acagggatgt cagtatcttc agagatatcc attaccataa agtctgtcgg gaagataaaa 180  
 tgttttactc tgaccaacac atcttcaatt actccatatg gccgggtaat ggagcagtca 240  
 gctaattgtc aagacattcg agtgggcatt atttccaact ctccgaatct tctgcacatg 300  
 gagagtggca tcaaattgat actagctccc aaggcaataa gagcttttcc cacattgact 360  
 ctgtcaattg aacaaggaat agttacactc ctacgaactt tatgcttggg t 411

<210> 10161  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10161

tctcaattaa gtaggagtgg gtagtgacctt angctttggt cncttcctct tcttctcgaa 60  
gctaacacct ctgcgctttg cctgaaaatc gcgaacatcg cgaaggtaaa tcttgaccgc 120  
gcgtgcgccg aatgggttgg tctccgggcg gccgccgttc ttctcgtagg cggcgccgaa 180  
gcggtcgatg acggcgtcga agctgccccca ggcttggcgg agcgggcagg gacatggggc 240  
aagtgggttg 250

<210> 10162  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 10162

gcacctgcag catgcagcta gtgagagatt aacgattttt ttaattttat ggcaagcgca 60  
ctctgatttc actagagcag gctctttggg tatcaatctt catgcagcta atcgagttgg 120  
tatagttgat gggctcttga atccaacata tgatcttcag gccatctatc gatcatggag 180  
gttagagcct gttactttat cccttaatca aaataagttg cttcttgatt taaaaattat 240  
ctataaaaca taaagtttag aatgcgatgc gactgtctcc ttacggaga attcttcatt 300  
gagcagcatc ttagctcatt gccttttttag aggggtttcc cttatttcta acaataagac 360  
gtgatagttg agaccttcac tccttattac gcgaccgcca cattctcttt attcttg 417

<210> 10163  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10163

agaaactcag cttaacattc acttcgagcg tacgttatat tatatgactt attagacatc 60  
cgcgtaaaaa gttattggcg nttgagttgg ctgagagctt caacattcaa tttcaagcgt 120  
ctcgatatat gacgggactc aatcagacat ccgagtaaaa agttattgtc atttgaattg 180  
gctgagagct tcaacattca atttcgagcg tctcgatatg taacgggact caatcagaca 240  
tccgagtaaa aagatattgt cgtatgaaat tgctcagagc atcaacattc aatttcgagc 300  
atctatatat gtgacgggac tcaatcaggc atccgcgtaa aaagttattg tcatttgatt 360  
ggct 364

<210> 10164  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 10164

tgtgtgcatt caatatacctg atgaggggtgt tccatatggt tttatgactg gactttacat 60  
 ctgttgccca agtttcatgg tcttgcaggt gaagatcctc ataagcatct taaggagtgc 120  
 catatttttt gttccaccat gaagccccct gatgtccaag aaaatcatat ctttctaaag 180  
 gcttttcttc atttctggag ggagtggcaa aagattgggt gtactacctt gctcccagat 240  
 ccatctccag ctgggatgac cttaagagag tgttcttggg gaaattcttc cctgcatcta 300  
 ggaccactac catcagaata gacatttcaa gcatcaagca acttaatgga gagagcttgt 360  
 atgagtactg gg 372

<210> 10165  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10165

ctaagcttac tgcacatana atatataact tgatattagt cttgttttca ttaaaactaa 60  
 aaataaatta agcataatgt ttgaatgtgg ctcaaataca gatcggctaa cactttacta 120  
 taactgaaat gtgaaagaca ccgtacccta ccaaaaacga agacacgtta taaacataga 180  
 ccctttcaag gaatacattt tcaattgaag cacttggcat ccaaaagagc ctgcacctca 240  
 aaacgatcat aatcttcaat catctgattg acacgctcct tttgagcttc atcatagatg 300  
 tcaaccttag tccattcgga tagctccatg tcatagcatt catcactcac 350

<210> 10166  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10166

cacgaaattn tatgcctcaa gtgaggtcta aaatctgaag tgtgggttctc aaatgatcaa 60

agttgaatga caagctcaca catgacctct atttatagcc tcagggtgac acaaaataag 120  
 aggggaattt gaatttctat tctaatttca cttgaatttg aatttaaata ggtggagcca 180  
 aatttggagc cacaatttca ctacttatga ttagtgaatt ttagctatga ttcaaccac 240  
 taattccaga tcaagtccaa gattcttcac taagtgtgct tatgtgtcat gaggcattg 300  
 aaacatgaca gatatgcaca aagtgtgact atatgatgtt gtaatgggga 350

<210> 10167  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10167

cttgatgaan agttggctca ctcgttgttt tctatagcaa tatgtagaat ctcaaattta 60  
 aagaaagcct ttttgagttg agtagccata tggtagtacc ttgtcatctg tggatccttg 120  
 atatgatatt ctccattcaa cttaccagtg ataagcttgg agtcgctcca acactttaga 180  
 tatttagctc ctacttcttt agctaatttc aggccagcta agagagcttt gtgctcggct 240  
 tggttattct tggtttcaaa ctcgaaacctt agggactgct ctaggattac ttcatctggg 300  
 ttttttgaga taaccgtagc tcaactccct ttttcattgg atgaactatc tacttacaac 360  
 ttccaccact c 371

<210> 10168  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10168

tcagcattca attntcagcg tctcgatata ttactgtact ctatcagaca tgagagtaaa 60  
 nagttattgt cgtttgaatt tgcaacgacc atcaacattc aatttttagc gtggtgatat 120  
 attacgcgac tcaatcagac atccgagtaa aaagttattg tgatttgaat tggctgagag 180  
 cttcaacatt caatttcgag tgtttcgata tattctggga ctcaatcgga catccaagta 240  
 aatagttatt gttgtttgaa tttgcttaga gctttggtat tcaattntga acgtctcgat 300  
 atattacggg actcaatcaa acatccgagt taaaagttat tgtcgtttga atttgctcag 360



agcatcaaca ttcaatttcg agcgtgtcga tatattacg

399

<210> 10169  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 10169

agcttctgtt ataattgcga gcgtctctat atattactgg cctcaatccg acatcggagt 60  
taaaagttat tgtcgcctaga atttgctcac agcttctgtt ctgaattttg agagtctcga 120  
tatactacgg aacacaatcg gacatttcag taaaaagtta ttgtcgattg aatttgctca 180  
gagcttctgt tcttaattac gagagtctcg atatattacg ggattcattc ggacatccaa 240  
gtgaaaagat attgccgttt gaatttgctc aaagcattcg ttggcaatta cgagcgtcga 300  
gatataattac gggattcatt cggacatccg agtaaaaagg tattgtcttt ttattgtgct 360  
cagagcttct gttttcaatt tcgagcatct agatatatta caggactcaa tcggacattc 420  
gagtcaaaag ttatt 435

<210> 10170  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10170

agcttactaa ggcacctgtt ctttctcttt ctgacttttc taaaactttt gagctagaat 60  
gtgatgcctc tggagtggga gttggagctg tattgttaca aggagggcac cctattgctt 120  
attttagtga aaaacttcat agtgccaccc tcaactaccc cacctatgat aaagagcttt 180  
atgccttaat aagagccctc caaacttggg aacattacct tgtttccaag gaatttgctca 240  
ttcatagtga tcatcaatca cttaagtaca ttagagggca aagaaagtta aacaagaggc 300  
atgcaaaatg ggtagagtac ctagagcaat tttcatatgt tatcaaatac acanagggaa 360  
aaacaaatgt ggtagctgat 380

<210> 10171  
<211> 433  
<212> DNA

<213> Glycine max

<400> 10171

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agcttattgt cgagtttgag acatatacgt ataatagaaa ctctgcttca gggggttgacc 60
gagtgggaat tgggtggagtt gcaagaaatg tcttgaactt aaaaaacatc ttttcacatt 120
gctcactcga ttgaaaatgt tttcgtttct tcagtacttg aagaaaagct ttgcttttttc 180
tgccattttt ggtaaaaaaa aaatgggata aggatgctaa catgcctggt aacttttgca 240
cctccttcaa attgtgtgga ctctcatgg caactacgac ctcacactta tctggggttag 300
cttcaatacc tctataggcg atcttgaaac ctaatatttt ccctctccct tactccaaaa 360
gtgcatttct ctgggttgag tcgcatgttg tgcttctca gctatgcaaa aatagctaaa 420
tcttttggat aat 433
```

<210> 10172

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10172

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agcttcagca ccgaaattta gtaggctac ttggtttctg cttggaagga aatgaaaggc 60
ttcttgtcta tgaatatgtt cctaataaaa gccttgatta tttcatattt ggtacgtctc 120
tgaatcactg catagttaga ctgcttctct atatttcact agtggttcaa gacaaagcct 180
aactattcac acaaaattaa aactgatgga tgtatatgca gatccaaaca tgaaggcaca 240
attggattgg gaaagtcggt acaaaatcat tcgaggtata actcgaggcc ttctatacct 300
tcatgaagac tctcgagtgc gtgttataca tcgtgatctc aaagcaagca acattctctt 360
agatgaagag atgaatccga agatagcaga ttntggcatg gcaagactgt ttttgggtgga 420
tcanactcat g 431
```

<210> 10173

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10173

ttgaatgcac tattcaatgg agttgacaag aacatcttca gactgatcaa cacttgcaca 60  
 gtggccaaag atgcatggga gatcctgaag atcactcatg aaggaacctc cacagtgaag 120  
 atgtccagat tgcaactctt ggctacaaaa ttgcaatata tgaagatgaa ggaggaagag 180  
 tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttgnga 240  
 gagaggataa cagatgaaaa gctggtgaga aagatcctca gatccttgcc taagagattn 300  
 gacatganag tcaactgcaat agacgaggcc caagacactt gcaacatgag agttgatgaa 360  
 ctc 363

<210> 10174  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 10174  
 atgatttctt ttgttccgga aacctttctt ttctcatgtg caccctaaacc caatctccgg 60  
 gttcgaagac aacctttctt ctcccttctt tggcttctgt agcatagctt ttatatttcc 120  
 tctcaattag atctttgact ctctcatgaa acttcttcac atagtccgcc tctgcttgac 180  
 cttcttaatg cgtacaaaca gaaacatttt gcatatgcaa aagatcaaaa cgagtttagt 240  
 tgctaaaacc ataaacaac 259

<210> 10175  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 10175  
 tgaaacctca attcctctaa tatatgaagt tggagcttcc tgtgttcacc agctgcattt 60  
 agatcaaaat tcaaaaactt caatgcttaa taagctttgt gtttcaactc aacaggtaag 120  
 tgacaagatt tgccatagac caattagaag ggagttcctc ttataagagc tctgtatgtt 180  
 gttctatatg cccacagagc ttcatctaatt atttgagacc aatccttctt taaatgagca 240  
 actgttttct ttaggatctt cttgacttca ttgtagaaa ttccagcttg cccattgggc 300  
 tgtggatggg aaggtgaggc taccttctgt ctaacacta 339

<210> 10176

<211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10176

agcttgtcaa gcagtctctc tcctatttgt ttantatata tgcattcgaa cgatataaaa 60  
 aaaagcaact gagggaaaaa gcttctctcc tcacatattc aaaacttcaa gtattctggt 120  
 tgtaaatatt tttaaaataa taggttacct acataagtat tgtaagtta ggtaattaa 180  
 gattaatacg cattgtaagg ttaggttagt tattattatt aataaattaa taagtatgct 240  
 gttatttgtt attaattttt atgtactaac agatatttga agagtaggtt aggttaggtt 300  
 acttagtata aaaatattat ttagtttgta gtatatcatt ttagatttgt agtatatatt 360  
 tgaagggttaa gttgtataac aataagtatg ttgttattag tttgtagtat atat 414

<210> 10177  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10177

taccaccata ggaagccatg gataagagct tgaatgtagg agaagatgag tggagggaga 60  
 gggagagaan gagcacgaaa ttttgtgcct caaatgaggt ctgaactttg aagtgttaatt 120  
 ctcaaatgat caaagttcca aaaaaatgca cacacatgac ctctatttag agcctaagtg 180  
 taaccncctg aaatattatt agtaattata tttgatgttn gattatattt gttgggtatt 240  
 tgtgtgctat tacacttact cactattgtg ttctatagct ataaagtttg attgtgaatc 300  
 atattgaatt gttttc 316

<210> 10178  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 10178

gagatcgtcc ccttgacaac attatcgggtg ttatctcaaa aggtgtaaca actagacatg 60  
 ctcttaaaga tttatgcaat aatatgactt tcgcgtctat gactgagcct ataaatttat 120

gatgaagcca tgatagatga tcattggata gttgctatgc aagacgaact aaatcagttt 180  
gagagaaaca atgtgcgga actagctgag acacctgaaa actaccccat cataagaaca 240  
aaatgggtat ctaggaataa gttagatgaa catggcatac tcattaggaa caaggcatga 300  
ttacttgcta aaggatataa tccagaagag ggaatcgatt actaataaac atatgctcca 360  
gttgca 366

<210> 10179  
<211> 168  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10179

agctgatgac catttttatg tctcgagagt ttntgctggt caatttcgag cgtctagatg 60  
agatatgtac ccgaatcgga catctgagtg aaaagctatg accattcgaa ttgacctaga 120  
gctttcggtt ttcaatttca agagtctcga tatattatgt gcccaaat 168

<210> 10180  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10180

agcttgtaaa cntatacaa gaatgaagct ctgataccac ttgttgaggaga agtggcctca 60  
gatatcttac gaaggggggt tgaattaaga tatcacaac tatttcccca attaaaattt 120  
tattttactt tctattcaag ttataaattc ccttaaaaat gaacttctta aatattgatt 180  
caaatagagc aatttgaata tgaatataaa acaataataa ataaaggagt ttaagggag 240  
agagattgca aactcagatt tatactgggt cggtcacacc cttgtgcta cgtccagtcc 300  
ccaagcaacc cgcttgagag ttccactatc ttgtaaaagc ctattacaag atctgaacca 360  
caqaaggaca acccttcctt tgtgttagat ttctttacaa caagagaccc tcggtctctt 420  
aatcc 425

<210> 10181  
<211> 434  
<212> DNA

<213> Glycine max

<400> 10181

agctttttatc catggcctcc tatggtggtg ttcttcttct agactcatct tttccttgaa 60  
gtggcgtctc ctctctctct tccttctcca ttccgctgcc attcatcttc caagaagcaa 120  
aggaatocat tgatgaagaa gatcttaggc ctacaagctc caatggagct tacatcagcc 180  
tctgactctg gcttgctttg gtgaagggcc ctgagagctg tataagtttg catagaactc 240  
tttcaccaaa gccaaatcta tgctcccatc aaccaaattg gtgaggcggt tatggaaatt 300  
acacctctcc aacttagtct taaaatcatc caactcgggt tggtagagct ccaccttct 360  
ctctgacaag atgtttctcg ccaggacatt atccatgtac tggttccaag catctaagga 420  
gtgaaatctc cttt 434

<210> 10182

<211> 280

<212> DNA

<213> Glycine max

<400> 10182

ggcatttttg gacaaagtat gacaagcagg gggcatgcaa attctcttcc catcaaacct 60  
tggatgcaac tgagatcgta tccccatctc agctagatct tgacgggtat tcaagccatc 120  
cttcatcttg ccttgaatgt taaggagcat cctaatacaca ttgtcacata catttttctc 180  
cacatgcata acatcaagac aatgtctaac gtctagatca gaccagtacg aaagatcaaa 240  
gaaaatggaa ctcttcttcc atatgcaagt cttactttta 280

<210> 10183

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10183

agcttccaag agttgaagag gcgantgaat tcagctccaa tgttaatttt gcccgacct 60  
aagagaacca ttgaagtgtg ttgcgatgag agcgggcaag tcttaagggtg tgtattgatg 120  
caagagggaa gggtagtggc ttatgcttca cgtcaattgc gtcctcatga agttaactat 180  
ccgacctatg atttggaact agcagcttga tggaagcttg cttgtggggc ttctatgaag 240

gctggatctt tgagcttcta tgaggtoctt taatggatgat tttccaccat ggagatgcag 300  
 cggaagacaa atgagaatag gtgagaggag gcgccatcca ctatggaata agccttggaa 360  
 gaaggagcat caccaccaag atgagccttg gataaaaagc ttggagagga tgcttcaatg 420  
 gaagaaaaga aagaggga 438

<210> 10184  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10184

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 tctccttata ccttatttta ttttatattg ttaattaatt ataatttata ttgttaatta 120  
 taatgaagat caaactttnt atattatatt aatttatgat aaataaaaat ttctttcaca 180  
 tcatttaagt tcattatatt tttataatag taaataaaga tcatactttt taaattatta 240  
 taattataat tactatgacc taagtatcta caaaatcgta tgcctatttt tagaatngac 300  
 catatttact atttgtacca aatattaaag atgcattatt atttttgaat t 351

<210> 10185  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 10185  
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 ggtcaatttg cgaaattttt tcagaacat ggaatgggtg ccacatcccc tatgcctggt 180  
 tctccggatc agaatggggt ggcagaacga agaaatcgaa ccttattaaa catgggtgaga 240  
 agcatgagga gtaatgtaaa gctccctcaa tttttgtgga ttgatgctct taagacggct 300  
 gcgtatatat taaaccgagt tccaaccaag gctgtctcaa agacaccttt tgaattattc 360  
 aagggttgga aaccaagttt gcgacatata cgcggt 396

<210> 10186

<211> 395  
 <212> DNA  
 <213> Glycine max

<400> 10186

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ctatcaggac ctataaaact cagcttggtg agagattaat gagcctttta ataagagggg 60
taagtgcact ctgatttcaa ctagagcagg ctctttgggt attaatcttc atgcagctaa 120
tcgtgttggt atagttgatg gttcttggaa tccaacatat gatctccagg ccatctatcg 180
atcatggagg taagatcctg ttaatttttc ccttaatcaa gataagtttt cttctgatta 240
aaaaattatt tataaaatat aaagtttaga atttgatgtg actgtctcct ttacggagaa 300
ttctttcagt gagcagtatc ttagctcatt ggtcttttag aggggtttcc cttatatcta 360
acaataagat gtgaaattga gacttacact cttat 395
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<210> 10187  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10187

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agcaattntt tatttggatc catgggacta tcaattgggt tacaatctga cataacagtt 120
tctttaagta tgtctaatgc atacttcctt tgtgagatga taatcccatt ttttgactga 180
gcaacttcaa ttccaataaa atattttaagt tttcccaaat ccttaatcta aaaatgacta 240
aataaatgtt ccttcogttg agcaattttt tcttgggtcat ttcctatgat gactatatca 300
tctactcgat gaggtatgac aataaaaaac tgaatgggtc gcttcacttt gtttcatccc 360
aaaagcctga acatctgagc tgaattt 387
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<210> 10188  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10188

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agcttctcat caatacttga aagaaaacat tataaaaagg taaaatgaat caaaattccc 60
caaaaactag cttatgcaat tcaactatct tagaagttcc ctggtttaac ttctccaaaa 120
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actgaagtgt ataagctaatt ttttaactgggt agggaaaagtt ttattcactt tacctattca 180  
 ttttcttcta taaaatgctt cttgaatttt atttccaaac tgaacctaaa tttgtatatt 240  
 tattaccttt ccgggtccga gttcatagct tttcttcaga cccttgggta gaagagtctg 300  
 cactgttggt tccattgaa caggtgaggt aacctgccaa atgcataaca ggtgcaatta 360  
 tttccattc atgtcttctt gttagattga aacaagtatc agtaacatac ctggcatgcc 420  
 aatat 425

<210> 10189  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 10189

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 taaaaagtta ttatcgtttg aaaatcctca gagcttcgggt attcaatttc gagcgtctcg 120  
 atatattacg ggactcaatc agacatccgt gtaaaaagtt attgtcgttt gaattagctc 180  
 tgaggttcag aattcaattt cgagcgtctc aatagattac gggactcaat cagacatccg 240  
 agcaaaaagt tattgtcggt tgaattagct cagagcttca gaattcaatt tcgatcgtct 300  
 caatatatta caggactcaa tcagacatct gagtaaaaac gttattatcg ttagaatttg 360  
 gtcagagctt caacattcaa tttcgagcgt gtcgatgtat tacgggactt aatcag 416

<210> 10190  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10190

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 tgggtatacaa tcggtttacg tactaatggg gatctttata ctggagctct ttttctatta 120  
 tttcttctta ctatatcttt aatagcgggt tggttacact tgcaaccaa atggaaacca 180  
 agcgtttcgt ggtttaaaaa tgccgaatcc cgcctcaatc atcatnngtc aggattattc 240  
 ggagtcagtt ccttggcttg gacaaggcat ttagtccatg tcgtattcc gggatccagg 300

ggggaatacgt ttcgatggaa ataattaatt agtatattgc ctcaccccgga aagatagggc 360  
cattttttcac 370

<210> 10191  
<211> 430  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10191

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gcagaaaaat tatgacctct ccagcaacag atacaaccct ggatgggagga atcacccctaa 120  
cctcagatgg tccagccctc agcaacaaca acagcagcct gtccttcct tccaaaatgc 180  
tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
acaaccaaca gttgaggccc ctccacaacc ttcccttgaa gaacttgatga ggcaaatgac 300  
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360  
gatgggacaa ttggctaccc aatngaataca acaacagtcc cagaattctg acaagctgcc 420  
ttctcaagct 430

<210> 10192  
<211> 419  
<212> DNA  
<213> Glycine max  
  
<400> 10192

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ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcacctg tgctttttct 120  
tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180  
ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggctcctgtt tatctatggt 300  
ggatgtaccc gattgagcga taaattgcaa aagaagccat tgaatttttt tcagaatact 360  
tagagaatgc taaacctgtt ggccttcctg agtctcgga tgatgacaaa gtgggggggt 419

<210> 10193  
<211> 306

<212> DNA  
 <213> Glycine max  
 <400> 10193

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 aagttatgac cattcgaatt tctcgacagc ttccattggt caatttcgag cgtctagata 120  
 tattatgtcc caaaatcgga catcgggtgtg aaatgttatg accattcgaa tttctcgaga 180  
 gcttctgttg ttcaatttcg agcgtttcga tatattatgt ccccaaatcg gaatttcgtg 240  
 cacaaagttc tgaccattca aatttctcta gagcttgccg tgttcaattt ccagcgtctc 300  
 gatata 306

<210> 10194  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10194

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 gctcaaaaga aaactcggga annatcaaac caccagttta ttaaacaatg ggagtnagca 120  
 aagatataaa gtatcaagag tattaataaata caaataagcc aaaactcata atcaataaaa 180  
 ataatcaacc agaagtcaaa taacataaaa tgtcaacaac cacaaaatat ccaagactga 240  
 aacacaagaa aaataagcaa agtacttagc ataataatgt agattctaag aaactaaaag 300  
 ccaaaataca cggcttataa aagataaata agcagaatct aaaatctaag aagac 355

<210> 10195  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10195

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 cgtggattca atcacaaaac aaacttcaat atattggact gtctaacacg gngattttag 180  
 attctattcc cacttggttc tgggaaccac actctcaggt tttgcattta aacctctctc 240

ataatcatat ccatggtgag cttgtgacta cattacaaaa tccaatatct atccaaactg 300  
 ttgatctaag cacaaatcac ttatgtggta aattacccta tctttcanat gatgtgtatg 360

<210> 10196  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 10196

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 tcttcgaggg aaagttgtgg aggggtctca actgtcggct gtttctacgg cttgcgctgt 120  
 tgttggattg gtggaagaat gtattgtctg cttgggccaac catcattttg gatagaacga 180  
 acacgctgct gttgttgttg ctgagggcta gaccatctga gattacgggtg actcctccat 240  
 ccatggttgt atctgctgct ggagaggta taactgttct gttgcggctg attatgctgc 300  
 t 301

<210> 10197  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 10197

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 gtcataactt ttcacccgga tgtccgatta tggcgaatca catatcgaga cgctcaaaat 120  
 tgaacaacgg aagctcttga gaaattctaa tggtcataac ttttaactcg gatgtccgac 180  
 tcaggcgcac cacatataga ggcgctcgaa aaggaacaac ggaagctctc gagaaattca 240  
 gatggtcata actttccaca ctgaggtccg attcaggatt ataatatatc aagacgctcg 300  
 aaattaaaca tcgaaagctc tcaagaaatt caattggta tcaacttttca cacggatgtg 360  
 cgattcgggc gcataatatg tcga 384

<210> 10198  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10198

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atagccctga tgctcatgca gatcctttta aaaccaaatt accgttggat ccgttcttca 120
cttataatnt atgntaattt atgaaatctt ggaggtgaga tgtatgattg aattttataa 180
gagtataata aatgaacaca ttattaacca tttttagact attataatta aaataatgtt 240
tccagtataa aaaaatattt ctggctacct tactgcagaa gattgttact gctaaatgga 300
agactgctac agcagaagag aagaagcctt atgaggggat ataccatgcg gngaaagaag 360
cttatttgca ggtgattgca aaggaaaaac gtgaaactga ctcaatg 407

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<210> 10199  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 10199

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gcttgatata tgctgaggtt gtccttata ttcaaaacaa ggtgggttgct tcacttatac 60
ttcttcatta atgaatccat tcaaaaaagc actcttgaca tccatctggt atatcttgat 120
atctttgtgt gtagcatagg ccagaagtat tctaattggcc tttagtcttg ctactgatgc 180
aaaagttttt cattgtcgat ccttcatgt tgattatata cttgagccac tagtctttcc 240
ttgttactaa ctactttata ttcatgaga tttctcttaa agaccattt ggttctgcca 300
taccctaatt ctgttcgggg accatcgttt gatggcatgc aacctttgct tgaccgcttc 360
gaggtatctg gcacccatct gtgcacaata cataaagttc cataacgtgc 410

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<210> 10200  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10200

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tagtgaagaa gaatgtggca ttacctgng gtgaaaaaca agagcaagcc ttgctttgca 120
tcaaagaaaa gcttactaag gcacctgctc tagctcttcc tgacttttct aaaacttttg 180
agctagaatg tgatgcctct agagtgggag ttggagctgt attgttacia ggtgggcacc 240

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ctattgctta ttttaatgaa aaacttcata gtgccaccct caactacccc acctatgata 300  
aagagcttta cgccttaata agagccctcc aaactttgga ccattacctt gtttcccagg 360  
aatttgtcat tcatagtgat catc 384

<210> 10201  
<211> 435  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10201

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acttcttcat taatgaatcc attcaaaaaa gcaactcttga catccatctg gtatatcttg 120  
atatctttgn gtggaacata agccaaaagt attctaattg cctttaatct tgctactgat 180  
gcaaagggtt ttcattgtcg atcccttcat ggtgattata tccttgaacc cactagtctt 240  
tccttgtttc taactacttt atcttcattg agattttctt taaagaccca tttggttctg 300  
ccatacccta attttgttcg gggaccattg tttgatggca tgcaaccttt gcttgaccgc 360  
ttcgaggat ttggcacca ttgttgaca atacataaag ttccataacg tgccagaagt 420  
caaaagagag cattg 435

<210> 10202  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10202

ntatactagg atgtttgatt gaggcccgta atatattgag acgctctaaa ttgaatgttg 60  
aagctttgag caaattcaaa cgacaacaac tttttactcg gatgtctgat tgagtcccg 120  
aatatatcga gacgctcgaa attgaatgtt gaacctctga gccaatcaaa acgacaatca 180  
ctttttactc ggatgtctga ttgagtcccg caatatattg agacgctata aattgaatgt 240  
tgaagctttg agcaaattca aacaacaata actttttact cagatgtctg attgcgtccc 300  
gtaatatatc gagacgctcg aaattgaatg ttgaagctct gagccaattc acacgacaaa 360  
taacttttac tcggatgaat gattgagtcg cggaatataa caa 403

<210> 10203  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10203

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 taaaaagtta ttgttggttg aatttgctca aagcttcaac attcaatttc gagcgtctcc 120  
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatttgctc 180  
 aaagcttcaa cattcaaatt cgagcgtctc gttatattat aggactcagt cagacatccg 240  
 agtaaaaagt tattgacgtt tgaatttgct cagagcttca acattcaatt tcgagcgtgt 300  
 cgctatatta cgggactata tcagacatcc gagtaaaaag ttattgtccg ttgaatatgc 360  
 tcagagcttc aacattcaat ttcgagcgtc ttcatatatt acgggactca atcagacatc 420  
 cgagt 425

<210> 10204  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10204

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 tcaacattct taacaagaag atctacaatt acttccccta tccatagtaa gttatagcga 180  
 ttatgcgtat tttcaacttt gtgtggtgtt agctcatgaa tatcatgtct tgatgttaat 240  
 tgagattgga tccgtgaaat gttatgcgca gacatgtgtc tctgtccttt gttaacgtcg 300  
 gatggtaagt gaataagggt tttttttatt ttttattctg aattgtgaat aagggttaatt 360  
 aaaggaaata tctcgattcg cgtttctgga ttatta 396

<210> 10205  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 10205

acacttaaac tcaagcttga gcattcaatg gcataatgca ctctttgtcc gattcatgca 60

cataatttat cgagacgctc taaattgaac aacggaagct ctcagaaaat ttaaattgctc 120

ataactttta actcggaggt ccgattcaag cggataatat atcgagacgc tccaaattga 180

acaatggaag ctgttgagca attcaaattg tcataaatag tcaactcggag gtccgattca 240

ggcacataat atatcgagac gctcgaaatt gaacaacgga agctctcaag aaattcaaatt 300

ggtcataact tttaactcgg aggtccgatt cagcacata atatatcgag acgatcgaaa 360

ttgaacaacc gaaactctta agcaattcaa aagggcataa 400

<210> 10206

<211> 394

<212> DNA

<213> Glycine max

<400> 10206

cgctttaatt gaagtgaac actttagtta acgaggttct ctttcttggt tatagctacc 60

gtgaattttt attctgacaa caacaactaa aactaatcgg ccatgcatgg ggtagaaaga 120

acgaagctct tgaaatttat actaatttgg cccaagtacg aaataataat aagaagataa 180

aaacacttac cggaaaaagt aaatctaattg attccctggc tgcattgtcg acggctctag 240

tgggatacat tggaccacca ggagaagtaa agctatacaa acaagttttc aatctcgtac 300

tagtagtcat tctcaattcc aagcctgtgc cgtaaataa aacacaagaa tggcatagtt 360

aagtcattgag atattaatag tccctgtcca aata 394

<210> 10207

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10207

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tgatgactca acaaatcaat ccttaaaggt atccaattaa tccagtaaag cttcattgca 120

gattccatat gcattctgtg ggtgcaaatt tacagtaatt aagtgttttc aaacatgcaa 180

gaatgtgtcc aaatggagtg tcaaagatgg atacaaaaag gcgtgaatgt caaatatgaa 240



acaaggacaa atcgcaatgg ttacaaggca agtgccatga aggacggttt ggagaatgaa 300  
tatngtcatg attgcgagaa tgtaacaata tttgat 336

<210> 10208  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 10208

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tatcaagacg ctcggaatta ataaacaaag gttctaaaga aattaaaacg gtcataacat 120  
tgcagttgga tgtccgattc atgcacataa tatattgaga cgctcaatac tgaacattaa 180  
agctctagtc caattagacg gtcataactt tttgacatgg gagtgcgatt gaggcacatg 240  
atatatacag acgctc 256

<210> 10209  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10209

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tcatggcaag gtcccatttg ctgctctctc taaaaagtgt tcacaggaga tgcttaatta 120  
taataatggt caatgggtat taataatata taataaatac tgataaaaaa agtatctaat 180  
aaatctttta atatattaaa agataaacia caaatTTTTat attttaataa atacattcta 240  
ttaatgtatt tggtttggtta actaacactc taaagaaaat ggtcataata ctctcttgaa 300  
aaanatatat ttatgtttat tggaattaat atatatcaac tcatgtattt ttctattagt 360  
agtataaagt gaaacacata agagtaaatac atac 394

<210> 10210  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10210

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gaacaaccac caggttttga aatattggat aagccaaatc atgtttataa attgaaaaag 120  
gctttatatg gcttgaaaca agcccctagg gcttggtagc agcgtctaag taagtctctt 180  
ttagaaaagg acttttctag aggaaaagtg gatactattc tttttataaa gagaaaatca 240  
catgatattt tactagttca aatttatgtt gatgacatta tttttggatc cactaacaaa 300  
ttgttgtg 308

<210> 10211  
<211> 402  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10211

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ctttcctttg gatctctttt gtctcttcca aattgcttct atatgctggc ttatttggtg 180  
aggaagctcc tagaatgaga tcaatttggt gctctatccc tctcaaaaaa tgtaacccat 240  
gagggttgtc tttaggggaag acatccccaa actccttcaa taatccttcc atacctatag 300  
gcaaagcaat agaataaaaa caataatcat ggggcattag taaatacata ggtagcctag 360  
ctagtatcac tctctccacc tctttctctc tcatgaacaa gc 402

<210> 10212  
<211> 359  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10212

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gcttagctac acacccctt ataatagcta agctcacccc catgacaaaa tacatgaaaa 120  
tacaaaaaaa gtccctacta caaagactac tcaaaatgcc tcgaaatata aggctaaaac 180  
cctatacaac tagaatggcc aaaatacaag gcctaaacga aggaaaaaaa acctattcta 240  
atatttacaag agataagcgg gctcatactt agcccatggg ctcaaaatct atcctaaggc 300

tcatgagaac cctagggcct tcccttggat ctctggccca atctacttgg agtcttcta 359

<210> 10213  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 10213

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ttttacactc tcatacttga tgaaagattc aagtaaaaaa aatgcttatt gtaaagcatt 120  
atagttaa at tagacccatg aataatattt aggaaaaatt gcaattgcaa tggcactttt 180  
aatttataaa aaacattcac ctcccttttga atgatttttt taagattatg atttttttaa 240  
tgacgagtca gtaaaaaata atttgtgtatg attttttaaaa aattttaaaaa tcaacaaaact 300  
tttattataa ttcgtaattt gatatcattg catatactaa tagacattta tattttatta 360  
tgaaaaattt attaaaaaca atcaaataaa ta 392

<210> 10214  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10214

taagtcacct ggggcgtgca gctcaacttt atacccttcc attgttttgt tctacttaca 60  
tggacttgat ggggcctatg caagttgaaa gccttggagg aaagaggtat gcctatgttg 120  
ttgtggatga tttctccaga tatacctggg tcaactttat cagagagaaa tcagacacct 180  
ttgaagtatt caaagagttg agtctaacac ttcaaagaga aaaagactgt gtcatcaaga 240  
gaattaggag tgaccatggc agagagtttg aaaacagcag gtttactgaa ttctgcacat 300  
ctgaaggcat cactcatgag ttctctgcag gcatcacacc acaacagaat ggcatagttg 360  
acaggaaaaa caggactntg cangaagctg ctatgggtcat gcttcatg 408

<210> 10215  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10215

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gcaagcttag tcctagaagg gacggacctt nttgtgttta gagaggatct ataacaatgc 60
ctatagattg gacctcccag aagagtatgg agtcagcacc acttttcaca tttctgattt 120
aattcctttt gcaggtggag ctgatatga ggaggaggaa caaacagatt tgaggtcaaa 180
tctctttcaa ggggaagggg atgatgctat cctccctagg aagggaccag tcaactagagc 240
catgagcaag aggctccaag aggctagagt tgctgaataa ggccctaggg ttctcatgaa 300
tctcaaggta gattttctgag cccatggggc aaggttgggt ctgttagtgc ttagctntac 360
taagctntaa aagattggct aagaatttgt taaaacataa gcacttanac aatgatggaa 420
agctggagtt gctgcacatg atgtccaacg ttatgtcaaa gaataagatc 470
```

<210> 10216  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10216

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tctcgggctc tngcacacct attttaaaagt ccttcttatg cttttgacct ttctctttag 60
gggctacatt ttgttcacca acttttttct tgaaacagaa gaacactact aagagacctg 120
gaagaaacag caatgtgaca cccccaaaa ctattgctat tgttgctccc ttgctcattt 180
tctgtttga tagatcactt ggtctttgag agactgttgg tggagacaat gtggtcttag 240
gggaaactga ataacattgt ttcaaagggt ctccacataa catcaaattc cctctatatg 300
aggaggcagg aaacttatgg agacctgaag gaatagatcc attcaagtag ttgaagctca 360
natccaaatc cttaaggcta ggaagggtaa catcaggaat acgtcctgtg agagag 416
```

<210> 10217  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10217

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ctcctcatca aagagnntat catccacatt aaacaattgg cttactagtt gattgaactt 60
gttgatgtgg ccatggagat ctcttccat ctctattttg agttgatata actccatctt 120
```

caaacaaagg caattggttaa gcgactttga tgcataagata ttctcgagct tctcccacaa 180  
 agtcttcgggt gttgtctcct tcaacacatt gtgttgatc tcgggagcaa tgactaacgg 240  
 aatcgtgctc acaacctcc tttggatctt agtccactca gtttcattta tagaagccag 300  
 cctatcatct tctaagcct gatc 324

<210> 10218  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10218

ccttatcttt atcagtaaca agcacatttc cattcacagg tttagcgaca tcaacatcat 60  
 cacttgagcc ctcactttca atgtttccat tatccagtaa tatcatgcct cttttatttg 120  
 gacattgaga agcaatatga ccaactcctt gatacctgaa acatttgata tcatgggac 180  
 tagaagatga attaatttcc attttacctt taggtgcagc aaatgaattt ttggacttag 240  
 cttcatcttt tgactttgtc atagattttt tgttttgcc aattgacttc catgaataag 300  
 tggaatcaaa tttggaagta ctcttagctn tcaattgect ctccacttga atagatntat 360  
 gcagcaagtc ctctatctcc acataatgat gcaattctac cacattagtt atctcctcct 420  
 tt 422

<210> 10219  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10219

catgcaagct tccttaagaa gattcctaaa gaagctatat cttagctata cacttctctc 60  
 taatagctaa gtcacctca ttgagatgag aagctagagc ttagctacac accnctata 120  
 ataactaagc tcaccttat ggcaaaatac atgaaaatac aaaaaaatc tctactacaa 180  
 aagactactc aaaatactc gaaatacaag gctaaaacc tatactacta gaatggccaa 240  
 aatacaaggc ccaaacgaag gaaaaaccta ttctaattt tacaagata agcgggctca 300  
 tacttagccc atgggctcaa aatctaccct aaggctcatg agaaccctag ggccttcctc 360

tggtatctctg gcccaatcta ctgggagtct tctatccaat gcccttgagg ngtaggaatg 420  
catcactaag tctccagcat tggtttc 447

<210> 10220  
<211> 491  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10220

agtcacctgc ggcattgcaag ctctccctct ntgaacaaat acccctcttc caaatagaat 60  
ccttcttctg cctttttccc acaactctca taaatgggag agaaatgttc atctaaagca 120  
tacaagtccc tactattatc aaatcctaaa atttgagctc ctaggaggca aaacaatgtg 180  
tgtctcctag agagggcatc agctaccaca tttgtttttc ccttnttgta tttgataaca 240  
tatggaaatt gctctaggta ctctacccat tttgcatgcc tcttgtttaa cttgctttgc 300  
cctctaattgt acttaagtga ttgatgatca ctatgaatga caaatccctt ggaaacaagg 360  
taatgttccc aagtttggag ggctcttatt aaggcataaa gctctntatc ataggtggng 420  
tagttgaggg tggcactatc aagtttttca ctanaataag aaatagggtg cccaccttgt 480  
aacaatacag c 491

<210> 10221  
<211> 267  
<212> DNA  
<213> Glycine max  
  
<400> 10221

ctaagttaaa ctgaggttca tctgtagatc cctcatgtaa gactagactc agctcaagta 60  
gcttactaaa gtttagccta atttagccta agcttcgtct gcgatgggtg aatttttacg 120  
aggaggtggc tcgcggtggg ggcggtggac agttctgatg atgaggggtga agaaactgac 180  
gaggaatgca tacacaacga gagtgccacg tgtctaaatg aagacctaac gactaacaat 240  
gatgcagccc agatatatgg accttta 267

<210> 10222  
<211> 436  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10222

agcttctntg cacttttttc atttgaattt cttaattagn tntggacatt actttgtttg 60  
acataggaag atgccatgtt tcatttgctt gacttgaagt ccaaggaaga aggacaattc 120  
tcccatcata gacatctcaa attctttntg cataaagttg gaaaattcct tacacaaagc 180  
ttcattaata gcaccaaaga ttatgtcttc aacataaatt tgcacaatca acaactcatt 240  
atttgatctc ttgataaaca atgttttgtc aacttgacct cttacaaaag atttcctaatt 300  
taggaaattg ctcaatcttt caaaccaaga tgtaggttct tgttttaaag aataccgagc 360  
cattttcagc ttgtaacatg attagatgtg tgaagctaca aacctagagg tggctacata 420  
tatctttctt catgat 436

<210> 10223

<211> 369

<212> DNA

<213> Glycine max

<400> 10223

tagactaagt tcagcctacc atcctcagac tgattttcta ctgaacagac aattcaatcg 60  
tcggaggacc ttttgagggc atgtgtctta gaacaaaagg ggagttggga gagttatttg 120  
tcgttgatag agttcaccta taaagaccta tatggtataa ggtgtaggac acccctacgc 180  
tagcttgagc ccaaagagaa cctcacctta gtgcctgaag tggtagcata aactactgag 240  
aagggttaagt taatccaaga gaggatgggt actgctcaga gtaggcagaa aagctatcag 300  
ggcaagagga ggaaagtcct ggaattcaag gttggtgatc atgtattctt aagagtcact 360  
ctatggact 369

<210> 10224

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10224

gaacttaa atctcagcttaa cactcgtttg atgggtgcac catcttgctt gttgggtgag 60





gatatgtgtg aatcaataat attc

384

<210> 10227

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10227

aactcaagct tcttagtttc agatgatgca gatggggttg gagctttctc atgcattctc 60  
tctaatagact atggcatcat ttctggcgct aaactgctgg gagttggagg ccatcttctc 120  
aattaaattt ctggcttcag caggagtcac gtctccaagg gctccaccac tggcagcatc 180  
tatcatactt ctctccatat tactgagtcc ttcataaaaa tattggagaa gaaactgttc 240  
tgaaatctga tgggtgggggc aactggcaca tagtttctta aatctctccc agtaactcata 300  
caggctctct ccactgagtt gtctaatacc tgagatatcc ttctgatgg ctgtgggtcct 360  
ggaatcangg aaaatttttt ctaagaatac tc 392

<210> 10228

<211> 394

<212> DNA

<213> Glycine max

<400> 10228

tcaagaaaaa gatggcctca gcaaatttct tattttttta ttggaattct atcaatagac 60  
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240  
gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300  
taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360  
aggaaatgtg ggacactctt cgattaacac atga 394

<210> 10229

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10229

gcttcoctcag gagtcacaat cttcattctt cttgtaagac atcttttttat cgcatatata 60  
ttagtgagata ttgcctctcc ctagtagcaa tgaggcaatc ctattccttt caacatacat 120  
cttgccatat caagcaaagt tttgtttctc ctctctacta acccattgtg ttgaggagta 180  
tatgggggttg tcaacttcag ttcaatgtct tttatcttac aaaactcatg aaaactcctt 240  
agaattatat tctccccctc catcagtcct tagaatcttt aattcatgac cactttgtct 300  
ttcaaccagt gcacaaaaat tcacaaatac tgaaaacact tcaactcttt cattaagcaa 360  
gtacaaccac acctttctag ttaattcatc aacanaggtn gtgaaatacc tgtttcccc 420  
aatgatggag tcttaattgg accacacacc tatgaatgaa ccact 465

<210> 10230

<211> 411

<212> DNA

<213> Glycine max

<400> 10230

acactcaagc ttggttatct cttcttcac tacaacaaga atcaccgggt tgagtcttct 60  
ttgtggctgt cttactgggt tagctccatc ctctaaattt atttgatgca tacatgtgga 120  
tgggctaata ccaggaatgt ccgtcagggt ccaacctata gccttcttat gcttcttgag 180  
aactgacaac aacttctcct cttgctcatc agcaaggag gcagatataa ttagtagaaa 240  
actcttgcta tcatccaagt aagcgtatct taaatttgat ggcagagact tcaattctgg 300  
tgtggtcggc tggacagtgg tagaaggaga tggtttctca gcctttacct cataaagaaa 360  
gtcagaggta tgtgtacttc ccgaaacatg gttagtccta tctgactcta t 411

<210> 10231

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10231

agcttcttat tcatattttg ttggtacata ttgcttntta ttacataac accaatagta 60  
ttccatttat aagcagagat tgacgattca aattacatat ttataagaga ccaaccaaac 120  
acaaagcaac cacagcttat aacacccgta acaaaccta gaacatttga atttgcaaag 180

gcggggccatg accactttat tctaaaactt caaacacaaac acatacttat tatttattga 240  
 tacatgtatt acagctatct ctgcttgaag gttatgcatg ttgatctcac ttgcagctgc 300  
 atgggtcgca agtgcagttt gatccacagt tgcagccacc gttctcagct gcaacaccca 360  
 tttcagcacc ctgcaattgg gccttcaccg gcccaacacc caaaactaga gtctcatttg 420  
 tgatcttctc 430

<210> 10232  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10232

agcttatgac aatttgaaat tctcgagagt tttctatgat taattntgag cgtctcgata 60  
 tattataagt ctgaatcgga cctacgtgtg aaaagttatg accatttgaa ttttttgaga 120  
 gattccgttg ttcaatttcg agcgtctcga tatattatgc gcctgaattt gacttgccctg 180  
 tgaaagggtta tgaccatttg aattttctcaa gagcatgcgt tattcaattt cgagcttctc 240  
 tatatgtgat gcgcctaaat cagacatccg gggttaaaagt tatgaccatt tgaatttctc 300  
 aaaagcttcg gtagttcaat ttcgagcatc tcgatatatt atgcgcctga atctgacatc 360  
 cgtgtaaaaa gttatgacca ctttagttta tcgggagctt tccgttttca attgctagcg 420  
 tctctatat 429

<210> 10233  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <400> 10233

cttacttagt catatggaga tcccaaagtc acaagggtga gacatcctta tatacgccctt 60  
 cttccaaatc aatgccaaact ttggcatttc cagatgcatg ttctgcatac agagaagata 120  
 tgatctccat tgcattgaac ccagcattct cagccaaagt tctaggaatc atttgaaaac 180  
 ttttagcaaa ttttgctata acatattgat ccaacctgca gggccattga aaatgtttag 240  
 tccatcccat tcccggtgca aataccaaat aagcattgaa caaaataaat taagtccaat 300

gaatagagac aataagtatt tocaaataat acacagtaat ggtgccgggt taaaaagcat 360  
ctagtgaata gagatagtaa ctatttccaa atattacaca gtaat 405

<210> 10234  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 10234

tggaggacaa aacaaagtag tgtacaagtt cttggttcta tggcataccg tgctcctcag 60  
catttgtctc ggtgtctccc taagattggt cccaaattgg ctgaggtata acatgaagca 120  
aacattatatt ttcacttcta aattcctttt aagctataga ttgcattacc ttaacccatc 180  
tcagtatttg aagggtttga ctgatacaca tctaaagtc cagtcagctg ggcaaagggc 240  
ccttcaacac gttagtcttg acttacgaac tattctatcc atttgattcc tgcttgcttc 300  
tgtgattaat gtttttaatt ttcattgttt ttccaggtag ggaatgtgat agagtccaga 360  
aatatctggt cttgtcccta ctctacttaa 390

<210> 10235  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10235

tgcaagcttg aggcgtgaac ccaccatttt tagtattata acacctgtta tgtgtctact 60  
atcattgtaa tcatctcctt ctccaccatt tgnnggacta cttgagctgc caggtccttc 120  
cacctctggg cgtattcctg gaatgactca tgccccttct tgcacaagtt ctatagttgc 180  
actctatccg gagcatatt agaattatag tgatattgcc taacgaacgc aaccattagg 240  
tccttccaag aatggactcg agaagggttt atattagtat accaagtgc aaatgctgat 300  
tcatggggca agtagtcccc ttatacttat caaagtccaa gaccttaaac ttcagaggaa 360  
tgatgacatc aggactagt cacaactccg cctccttcaa tggccctcag cctntcctct 420  
atatgatgca aatttccgct ttctaccata gcaa 454

<210> 10236  
<211> 454

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10236

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agtctcacga ttgttttatg ttgatgcaac tatttgtag ccgggctata cgagacatct 60
tgccaaacaa agtcagggtta gccataactc gcctgtgctt tttcttccat gccatatgta 120
gcaaagtcgt tgatcctgtc aagtttaatg agctggaaaa tgaggctgca attatattgt 180
gccagttgga gatgtatttt cccctgcct tctttgacat catgattcac ttgattgtgc 240
atctcgtcag agaaatcaaa tgttgtggtc ctatttattt gcagtggatg taccagttg 300
agtgatacat gaagatctta aaaggggata cgaataatct atatcatcca aaagcatcta 360
ttgttgagag gtacattgca gaagaagcca ttgaatcttg ttcagaacta cattgaaagg 420
ctaaancctg tggccttcct gagtcttgac atga 454

```

<210> 10237  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10237

```

agctngacat ctatatctat aatttgtttt atttatttaa aatttagtgt tcaaatagta 60
taaaaatgga tttatatttc taatattaat agtttaattc gctttctcgt ttatattttc 120
atgttactat tatccttgta tattgaattn taaaattgta ttagaaaaaa ttatttaata 180
tttcacattc taggtttata ctaccatcaa ataatgttta atttactata atataattta 240
tagtgatttt aaataacagc tagtgtactt aatgtttgaa gtcccagtat atcaacattg 300
ttgtctcaac aactacattt catatttggt tatgaatgta tctgatgaaa gagtctgtct 360
tatatatgtg agaacaagag aataactaat gactattaaa ttctattatc agtagttgag 420
attagaaaca atctagctaa atgact 446

```

<210> 10238  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <400> 10238

tcaagcttgc tegtcttgct gatatttata atgcagactt ttctgatgat gttcgatata 60  
aattagggat caacttgaaa cttatgtgct tcaagtgaga agaaatgctt ctttttccac 120  
ttgtgaagat gttcaaagtt tggctatgaa gatgggtcaa actgagaaac atttggtatt 180  
tccattgggt tataaactta ttgagctagc tttgatattg ccggtgtcga caacatccgt 240  
tgaaagagct ttttcagcaa tgaagattat caagtctaaa ttgcgcaata agatcaacga 300  
tgtgtgggtc aatgacttga tggatatgcta caccgagcgg gag 343

<210> 10239

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10239

gagaattgca ctaagcaatc actacgcatg gctccaagct ccacggtgaa ggacgcatga 60  
actaaatcgc cattcatggg gctcccgaaa aggggttgagg atggcgaatt gcactaagca 120  
atcactatgc aatgctccaa cctcctgcgt ggaggacgca tgaactgaaa cgcaattcat 180  
ggcgtccca aaaaggggtt aggatggaga attgcactaa gcaatcactt cgcatggctc 240  
caagctcgtg ggtggaggac gcatgaacga aaacgcaact catggngctc cgaaatagga 300  
ttgagaatgg agaattgcac taagcacatt acggcacatg gctccaaact cat 353

<210> 10240

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10240

ntccatgaag aagaagtttg gaggtatagg attntgtaat ctctatggat tcaacctagc 60  
catgttagga aagcagggtt ggaatttgat taataaccca catactacaa tttataaaat 120  
tctcaaaaat aaatattatc caaatgttgg attcttagat gccaaactag ggcataaacc 180  
aagctataca tcatatagta tttttgcttc acatatattg gtcgaagaaa gcaattagtg 240  
cagaaaaagt gatggtagct ctataaacgt ttggacccaa ccttgggtgt gagcatcaac 300  
aagcccatat atcattcat caaccctgct cgatcttgat gatctcaaag tcagttcact 360

catcgacaac caacaacgat gttggcggtca agatgtgcta caacaaat

410

<210> 10241

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10241

gctcgccgcc acggagttnt tgcactatgt tcttgtgtgg nggttctatc tacaaaagga 60

gagagcaaga aatgaagagc caatggttga tacatgggta gagatgaaaa ggatcatgag 120

gaagcgggtat gtgctgggta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180

ctaaggcaac aaggggggttg aggagtatct caaggaaatg gatgtgctta tgattcaagc 240

aaagattgaa gaagatgagg aggtaactat ggctcgatct cttaatgggt tgactaatga 300

tatctgtgat attgttgagt tgcaggagtt tgttgaaatg ggtgatttgc ttcacaaagc 360

aatccaagta gagcaacaat taaaaaggaa aggagtggct aagaggagtt ctaccaac 418

<210> 10242

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10242

aaactcacgc ttagatgttc taaatttntt tattatgtga tattatttcc cattttctat 60

actatgctag caaacatgaa tttaatgtat tgtttaaaat ataatatatta tatttttgaa 120

aaatctcaat gtacttatat ttatattatt ttgatttaga tgtttataat gtttatgtgg 180

aaaacctttt ttttagagta tacattttca ttgtaatttc atttgtaatc ttgtttagtt 240

tctctgtaac agttagtttt tcatttatga tttagtttct tgcagactca gcagtttagac 300

acttattttt tttaaatatt tatattattg gatcagtaat ttgaaacaca ag 352

<210> 10243

<211> 410

<212> DNA

<213> Glycine max

<400> 10243

atctgggtccc taaaaaggat gggacatggc tgtataagca agcttcatga tgatgaatca 60  
 agatcgagtc atggagtttt gatgatgcc aagaatcaag agtcaagcaa attccaaaga 120  
 ttcaagaatg aagctccaag aatcaagatc aagattcaag actcaagatt caataatcaa 180  
 gagaggactc aattaagata agtattaaaa agttttttca caaactgagt agcacatgaa 240  
 tttttctcaa aaccttttac caaagagttt ttactctctg gtaatcgatt actagattat 300  
 tgcaatcgat taccagtagc aaaatggttt tcaaaaagct tactaactga atttataacg 360  
 ttccaattaa tatcaaatg ctgtaatga ttacaagtat tttgtaatcg 410

<210> 10244

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10244

gcttctgggc tgagctngga atngacattg ttattgaggt ttattcccca tttcttgact 60  
 tatttcaaac acgatccaat attgtttact tattgaagag ctcttaaaaa gaacaatgag 120  
 tgagattttg ttcaoggaac cggagtgttt gtggatggcc ctgtggctgg cgaacacatc 180  
 caagcacgtg ctaaaaaggt tatcatcact gctccagcaa aggggtgctga tattccaact 240  
 tatggt 246

<210> 10245

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10245

cataattcat atggatcaac tttcacngtt attgttttgg atcgccaaaa aaaaaacaat 60  
 ttataatata atttattcta attcatgtat aaataaaaaat aactattttt ataattgtta 120  
 agagaattaa ttgaaataat ttaattttgt taatctgaag taaaatataa aattattcct 180  
 aaaatgtcat tatttgaaat ttgatatcat gaataaaata aaaattttga aaatacaatt 240  
 gtaattaaac aaagaatgtt ttaagaatca tattattaat tatggacaaa attatttgag 300  
 tccaacatac aaattaaaat aactgttttg cttatatata aatgcaaaaa actacaaact 360



aaattaaatc aaaccaaaca aattaaatat aactatcttg gatttaattt tattttt 417

<210> 10246

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10246

ntatgcaagt caattntcag gaggcatttc ggagagaatc ttnttcggac ttatntgcgc 60

aaaatctctt gaactaggaa gatgttgctc atcatctttc tgttcttaac gaaagcagtt 120

tgagtttccc caataatagt ctcaagcact ggggctatgc ggttgccag aatttttagac 180

acaatcttgt ataacaaatt acagcaagat atgggtctaa aatgggtaac ctgngaggcc 240

tgatcatgct taggaataag cgcaataata gcatgggtga gctactttag aatttttcca 300

gttgtaaaga attcattaac cgctgcaaag atatcatcac caatgatatt ccaagccttc 360

ttgaagaata aaacattgaa accatctggc ccaggagctn tattgttatt catcacagaa 420

at 422

<210> 10247

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10247

gcttatatat ataaaaagat atatccttta cttattttaa ccaaanacaa ttttgatatg 60

tggttggttta tgtaattttg aaataaaaat atatagaaag ataaaacttg aaaggttata 120

tatagaaagt tcataaagtc gtaaaagatg aatatataaa aatgcgtcaa aagtacatga 180

tgaagatagg gtgaacagaa gttgggttaa gtgaatnttt gacaacggaa accaaaataa 240

taaaataaaa aaaaaaagaa aaaagctatg gaaaacttgc gtgtcccaa agctatgggt 300

tgtagtctga tgcagagctg ctgagataag gatcatcaga tcgaatatct tcctccatac 360

tgccttcttc tctgactata tggattccaa ttgctntaat gactgagctc tctaactct 419

<210> 10248

<211> 401

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10248

agcttgtgct aagaangctt tatccatttc atcatattnn aagaaaattg aatgtcatga 60  
 tocatcactt ctctgcata atatttagta ttaagatgtg taccaacaat cctaaaatgt 120  
 tctgtgcaga tattttccat tgaaagacac tacacaagat tagagactcc gaaattaatt 180  
 ttgttttatg ccaattgcta ttatgctttg ttgtgtcttg ctaaattgcat atttaatttg 240  
 aagcaacttc attatttttg tgttatctgt taatgggtta attggataat agtttacaag 300  
 ccacgtaata tataatttac atatatgtgc agagatgtaa tattgtcatg taaattttaa 360  
 tatttaatta ttgttatgtt agagtatgtg catgcaattg t 401

<210> 10249  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10249

actcagctag cctagaatta acaaggaatg ttatcatata ttcaattttc attaagtagg 60  
 aataatactt gcaaataaac cacacctgca taactgatga agagctgagg ttcttaaaag 120  
 gtaagctttt gaaagggttg ggtttacttc tatcgagca tttagatcat caagtgccta 180  
 tatataatct ttcaatttta tgttctgtga tgctgtctca aacaactcag caacattatc 240  
 aggttttcga tctaatacaca tccaaaaaaa caaaacaaat acagttcagg cctcgaagag 300  
 gcgtangagg tgcattgtgc angtgttgcc ctctgaccac accgaggaga cgccaacctg 360  
 cgacttggcc atgttgtcct cggagagacc cacaccatgg agcatggcct gngaagtgcc 420  
 ctangacttg nngctcgtga tgcggaagtt gtacctg 457

<210> 10250  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10250

tçtaagtcac ctgçggcatg caagçttcag gcaatçctac nncagagaat ttcactttta 60  
catçtattcc aaangctgag ntttçtactt caaatgçtac tgtcaataat acttçtaata 120  
ttgtttcaaa ttçtgatggt accçtttcca gtagtgçtaa tçtttgçcat gçtaaggttag 180  
gtcatçctaa tgagcatgta atgaaaatta ttçtcgaata gtgtaatatt tçtcaactga 240  
ataaaaaacat cacagagttt tçttççttt attgtatggg taaagçtcat aggttaccçt 300  
çtcaçggçtc aacttçtggt tattcaççtt tagaattcat tntcactgac çtatggngac 360  
cçtgçcatgt tacçtçttat gttggçtata catatgatgt ttcçttcatt gatgçtçtçt 420  
çt 422

<210> 10251  
<211> 418  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10251

agçttgacca ataaagacag tatcatatta tactgttgga natnaatagg çtçtttçtgt 60  
tttccçacca agtagçtttt atacagattt ttçgaaatgg ççtçtçtcat caatccagtg 120  
agacçttcac ccacaatatt aaagagcaaa ggggçtagag ggtççççttg tçtcagacçt 180  
çgagtagggg caaattcatt agtagggçta ccattcacta aaatggaaat agttgçtgat 240  
tgaaggçatg çagcaatcca ttgççtçtat ttagtgcaga agççtaatçt tgacagçata 300  
tagtccaaga aagacçaaga tacagaatca tagcagattt accçgggtta gtttactaaa 360  
gggtaaattt caagtçtat ççttagtaca gaatttcata gçtnttggtg aaagacag 418

<210> 10252  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10252

agçtttntgc tttacçtat atgaacattt ttgçttcca acaatgagaa ggtgaattçg 60  
tggttçttgc actttçtcat gatttçtggt ttçtçtgaa aggttaaggca caagcaataa 120  
agggacaatt agagtçttat acagggacgg ggtaatatta actgagaagt gttagaaata 180

tattatTTTT aatagattaa aatttattga aaaatataaa ttttttgtat tattaaatat 240  
gactagttaa gatacccatg taatgtaaat tttttgtatt attaaattga attatatgtt 300  
ttcaaaaaat agttaaatac tattgaataa aagaaaatta ttaccgatgt aagagaacca 360  
ttgtcaatgt taaactatta aacaaatgta atataagaaa tgttattcta gt 412

<210> 10253  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10253

agcttccgtt gttcaatttc gagcatctta tatgtgtata cattagaanc ggaaatccga 60  
gtgaaaagtt atgaccattt gaatttcttc atagcttccg ttgttcaatt tcgtacgtct 120  
cgatatgtga agtgcctgaa tcggacatcc gagtgaaaag ttatgaccat ttgaatatct 180  
cgagagcttc cattgataaa tttcgagcat ctcgatatgt gatacaccag aatcggacat 240  
ccgagtgaag agttatgacc atttgaattt cttcatagct tccgttggtc aatttcgtgc 300  
atctccatat gtgaagcgcc tgaatcggac atctgagggg aaagttatga ccatttgaat 360  
atctcgagag cttccattga tcaatttcaa gcgtctcgat atatgattcg cctgaatcgg 420  
a 421

<210> 10254  
<211> 481  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10254

tcaattggag tcttgtcttt tacagactta tttagacatc tgtngagtat gtaaacagca 60  
gtgtagactg cttcagccca gaatgtgtta ggtagtcctt tatccttgag catcgatcta 120  
gccatttcta taactgtgcg attctttctc ttggacactc cattttgttg aggagaatat 180  
gcgactgtaa gttgtcgtc aataccttca tcttcacaaa atctttcaaa ctagcgagag 240  
gtgtactctn tgccgcatc acatcttagt acttttatcc attttccact ttgattttca 300  
gcaagggcct tgaactttnt gaatactcca aagacttctg atttttcttt tagaaaatat 360

acccatgtca ttctagagaa gtcacatg aagagtatga agtacctgtt gttctcatgt 420  
 gatggcgctc tcaatggctc acacatgttc gtatgtatca gctctaataa aattttcgct 480  
 c 481

<210> 10255  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 10255

accacattca atgttcccat caaaacactc actatcctac ggaaagattg cctaacagta 60  
 ttacacacaa atggaagctt ggtaacctat tgtatgctct caacacaatt tcaatgaaag 120  
 gcctttctgg tacaaaactt gaaacctatg actgtacgta catggctgat tacaaaatta 180  
 caaaacgggc ctttaactg gtggctcttc tttctttggg gactcactca aacactagt 240  
 cttgtgactc caatatttct tgatgtggac ggacccttc ttcttgact 289

<210> 10256  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 10256

cgcataaaat atcgagacgc tcgaaattga acaacgaatg ctcttgagaa attcaaattg 60  
 tcataacttg tcacacggat gtccgattca gctacataat atatccagac ggtcgaaatt 120  
 gaacatcgga agctctcgac aaattccaat ggtcataact tttcacaagg aagcccgatt 180  
 ctagcgcac acgtatcgag atgctctgaa ttgaaaaccg gaagctctca agaaattcaa 240  
 atggtcataa cttgtcacac ggaagtccga ttcagacgca taatatatca agatgctcga 300  
 aattgaacaa cgaatgctct cgagatatca aatggtcata acttgtcaca cggaagtccg 360  
 attcatgtgc ataacatatc gacacgctcg aa 392

<210> 10257  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10257

agcttccccgc atgtattaag agacggagta attggaattg ncaagagaaa gctctcggta 60  
 accacactgc caaaagaaat tagtagtatac atttatcaga aatgatcgtt tgaaaacaat 120  
 tagatcatat tagccttatt tttatttaat gaaaaatata actattaata tagatattgt 180  
 gaatttatac attaagatta tgacatatta tattaacaaa caatttagtt aatataaaat 240  
 attgatacat tattaatatc aaatatttgt ataatatgtc atattattaa tgtaaattctt 300  
 catagtctat attacttatt aattaattta atttttcata ggcataaaaa tacaataat 360  
 taaagtaatt ctaacgtctg acaaataatta attatctatt agtaaatac 410

<210> 10258  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10258

agcttgaaat ttaacaacgg aagccngtg atatttttag gttataacna ancacacgga 60  
 ggtccgatac tggcgtatag tatatcgaga agtcataat tgaacaagga gagctctcaa 120  
 gaaattcaaa tggtcataac tcttcacacg gaagttcgtat tcacgcgcac aatatatgga 180  
 gaagcttgaa attgaacaac ggaggctctc gagaaattaa atggtcataa tttatcacac 240  
 ggaagatcga ttcaggcgca taatataccg agacgctcga tattgaacaa cggaagctct 300  
 cgacaaaatc agatggacat aacttatca 329

<210> 10259  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10259

agcttaacag tagaattggt tatctggata atcaaaccat cagtcacaag gccgcatgcc 60  
 aaagtacaga cattaggttg gaaaccaact gaatcagtca catcagtaaa acttaagcca 120  
 actgacaata ttctgggttc ctcaacaaat gatagaacca gaaaagaatg gtgtgaatcc 180  
 gtaactctca ttcggaccgt ccaagtagca gttaccctt gatatataga agcagtccta 240  
 tgtagatttt ccacattaat accatttoga ataatcctta atgaccctc tgggtgccaca 300

ccacagcaag caaacatttg atcttgcttc tcatcatgat aatctacaac ttccatatcc 360  
aagaatgggtg caatgttttg aatanggttt atatagcac 399

<210> 10260  
<211> 354  
<212> DNA  
<213> Glycine max  
  
<400> 10260

gagcgagagc tataccgagc caccctcctt caccacgaac ttcgtcacgc tgggggtgaat 60  
atccatcgag tgcgccctaa cgtcgccaaa ttagtcagtc ttcgccacga accggaagaa 120  
ggtagggggc tactccaatg gcacatcggc gtcagagcgg aaaggaaact ccatcacaca 180  
actgaacacg tgcggggagtc actgaagcat tttgccagcg atacccaaca gtggctgaac 240  
atacgacaat ggattgcccc cgtcgccacc gaattggata tagattttga atggtttagg 300  
aacaacgagg aacttatgat attgtgccac catgggacgc tacagagaaa tgca 354

<210> 10261  
<211> 410  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10261

agcttcggcc gcggttgattc cggcaacttt aacctgtata tattgagcnc cagctagacg 60  
agcgagagct ctaccgagcc accctccttc accacgatct tcgtcacgct ggggtgaata 120  
tccatcgtgt gcgccctcac gtcgcccaatt tcgtcagtct ccgccacgaa ccggaagaag 180  
ttaggggcct cctccactgc cacatcggcg tcggagcggg aggggaagctc cagcacacag 240  
ctgaacacgt gcgggagtc ctgaagcttc tttccagcga tttccagcag tgcttgagca 300  
tccgacattg gattcctccc gtcgccaccg aattggatag agaatttgaa ttttcgagga 360  
acaaggtgga ccttcatgat tntgttccca ccatggaacg ctacagagaa 410

<210> 10262  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 10262

cccataaggg gtctccaaca tgcaccagg ccctaagaag gatgggaagg tgcgaatgtg 60  
catagattat ctggacctga atcaagctag tccaaggac aatattcctc tgacacccat 120  
cgatatactc atggataata cggccaatth cgctgtgata tccttcatgg atgggttctc 180  
cggatacaat cagataaaaa tgggtgccaga tgatatgcaa aagactacct ttttcaccct 240  
gcggggggacg ctctattata aagcgatgtc ctttagactc aagactgccg gtgcaactta 300  
tcaacgggct atgagagctt cgttcacgat atgatgcacc cagaaatcga cgtctatgtg 360  
gaccacat 368

<210> 10263

<211> 432

<212> DNA

<213> Glycine max

<400> 10263

ccaaccgagt acaatctttt gttatgttgc aattttatat attcttgatt atgctaattc 60  
ttaaaaaata tgggtatttga caaaacaaga caaacaacac aggataaaaa aacaacacaa 120  
aacatataag ttacaagata gatthttttat cttgtatatc gcttgataaa taattgacaa 180  
gtaaaataat ataaaatcta ttaaaatact tcatattagt tatcttaata taacttaagt 240  
tatattttaa gtgtttacta aaatatttct tgtatttttt cattcttaaa attagagata 300  
ttaaaataaa aagaatctga tgttcttttt aaataattac gttagtattt aattttttgg 360  
ttataaagaa aataaaaatg atatcgcccc caatttttta aataaacata aaatattgcc 420  
tatataattt ta 432

<210> 10264

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10264

ngagaacatc cttgaaataa aagaagaggt aaagaaacaa tttgacgctg gttntttggc 60  
tgtcactcgg taccagaat gggtcgcaa cattgtacca gtccctaaga aggatgggaa 120  
gggtgcgaatg tgcatagatt atcgggacct gaatcaagct agtcccaagg acaattttcc 180



tctgccaccc atcgatatcc tcatggataa tacggccaat ttcgctttgt tttccttcat 240  
 ggatgggttc tccggttaca atcagataaa aatgggtgcca gaggatatgg aaaagactac 300  
 ctttttcacc ctgtggggga cgttctatta taaggatgat tccttttagac tcaagactgc 360  
 cgngngcaact tatcaacggg ctatggtagc tntgttccac gatatgatgc accgagaaat 420  
 cgaggcttat gtggacgaca taattttcaa gtct 454

<210> 10265  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10265

agcttagagg gaacataaag agcctcattt tttgggtaat gggangcagn gcangcctca 60  
 tttcaattga tcttgctaag gaccttctcc aagtccaccc caattcttat gcattgggtg 120  
 ttagcaccga gaacatcact ttgaattggt actctgggaa tgacctatcg aagcttgttt 180  
 ccaattgttt gttccgtatg ggaggggctg ccattctgct ttctaacaaa ggctctgata 240  
 ggaggagatc aaaataccag ctgggtgaca ccgttcgcac taataagggt tctgatgaca 300  
 agtgctatgg ctgcgttgtc caagaagaag aatccagtggt caagaatggt gttactttgt 360  
 caagagattt gatggcagtt gctggtcatg ctttgaaaac caacatcacc ac 412

<210> 10266  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 10266

agctggtaca attaaacagt ttttattata atctgatcca aactaatcct aaaacttgaa 60  
 ttgtgtagaa caaatcaaca gtcatagaaa cacaaatgat gagttggcat tcggcaacca 120  
 catcataaca tgagatgagt aatgagttgt ttctattgga atgttcacaa gaagaaaagc 180  
 atagaatttg aggggaattga agcaaaaaga agaaagaaga aagattaaat taaaaataac 240  
 cttatcatag gcaaggcgtg catttgggtc agagagaatg gaataagctt cgttgagtat 300  
 gatggccatg tcatggccag cagggccagc aatgtcaggg tggcagcgct tctgaagaga 360

gcgatacgcc actttgacct gtgactgac acaagagctg tc

402

<210> 10267

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10267

agctntaccc tttatttaca ttaaccactt tttataacaa cagcacacac tcctctgcta 60  
gtgtccacaa cagtctcctt agtccaaaag aaatacataa tactgttgta tctagttctt 120  
ttaaactttg gcatcaaaga ctaggccatc ctaacaagga tgcactagca attgtactan 180  
ataaatgtaa tataccctct atcaataaaa ctagcagtga tttttgtaat tcttgcctta 240  
tagccaaatc tcacaaacta ccctcttctc cctctnttac tgtttatact gcacctcttg 300  
aattagtatt ctttgatggt tggcgggcct cttcagtaga gacatcttgt ggattcttgt 360  
attatctaac 370

<210> 10268

<211> 419

<212> DNA

<213> Glycine max

<400> 10268

agcttcctat ataaattgaa atgaatatta attgtatgga acaatctagt ggtaataaaa 60  
gtaaaataaa ggaatgctac tctaacaaaa acgcgtgggt tgaaagacat taagaaagaa 120  
aaagatatac ctctcccagg tctgctgcca tgcgcaatt caaacctgac tgctcttctt 180  
agcttcttac aaggttcaca aatacgcaca ggtgaatcac cttgtccgag taaaaccatt 240  
ctttgtcgag tacaactgcc gcaaaagatt ccccccacacc tcctacagtg atgctgaaaa 300  
ataaaataaa attgcaaaaa aagtaaataa aaaaattttg gacaaagaat tcagtttgag 360  
ttcaatcaga ttcatcttta tactgtaacc aaaaaaaatt cattcttata agcaaacgt 419

<210> 10269

<211> 304

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10269

cagatagagc ctctagagac actgataaga catcttccat ggtaataatt ccaacggctt 60  
cttcttcttc agggagcttt ggaaggggac ttccatctat ctccaaaata tccgagtaca 120  
tattttttga ccattttctg ctccgagaac ccctatttga tgacttggtt gtatttggaa 180  
agctnttcca cttgtggagt ggcattcttg gtttcaaagc tttctctttg ggaggctttt 240  
caccatcaat atccacctta acatctctca ccgagtctat ttcagaggcg tgagacacgg 300  
agca 304

<210> 10270

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10270

agcacctctn ttctcacctc ttcttctat tttgggtttt gtcgtctctg gngttgtag 60  
actggcctgt tattgtcttc catcattatc ctatgtatgc agtaagcagg gctaattcct 120  
ttgagattca atatatgcca tccaatcgct tccttatggt tcttcagaat gtctaccaac 180  
ctattttctt cttcttttgt tagtgcatta ctgatcata tagttntagc gtcacttcc 240  
tccaggaaca catacttcag atgattagc aatattttta gctctacctt ctttttttcg 300  
gacggaggct ccttcttttag tgtctcaaaa ccggttctc cctcaggaat acttcttgt 360  
cgatccaagt ccctccaggc agtctagcgc atttaccatg gctntntcca gcgaagtctg 420  
tgggtgtctg agaatactga cgtcttctct atcaatctcc tgcactct 468

<210> 10271

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10271

ntacaacaga tgccactcta tgctaaattt ctgaaagaca ttctaactaa gaagaacaag 60  
tatatccaca gtgacaccat agtcatggag ggaaactaca aactgttat tcaacgtatc 120  
cttcactga agcataagga tccgagcagt gtcactatac tttgttctat aggtgaagtt 180

ttagtaggca aggcctcttat tgatttaaga gccagtatta atttgatgtc gctctccatg 240  
 tgcaggagac ttggagagct ggagataatg cctactcgga tgaccttaca gttggctgat 300  
 cactccgtca ctagacccta tggagtgatt gaatatgttc tggttaaagt caagcatctt 360  
 atctttcttg cagatnntgt ggttacggat atagaggagg atcctaaaat tccccataat 420  
 ttt 423

<210> 10272  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10272

agctngagcg atgtggaaga tattgaaatg ggttnaggta actgatcgcg tggggggaaa 60  
 atggattttg gggctcttaag ttatgaataa gacaacatcg gtttcttaaa caaaaccgat 120  
 gttaacttta caatgttaac atcggttttt tcaaaaaccg atgttaactt tctacagtta 180  
 acatcggttt ttcaataacc gatgttaaga tattaatggt aacatcgagt tttggaaaaa 240  
 tcgatgttaa catcaacttg ttaacattgg ttttttcaaa accgatgtta attaagtcaa 300  
 cttatttacc aaaatgccac cgtgctttta tttacatcg ttttgcgaaa aactgatgtt 360  
 aagcttgoga tgttaaataca ataatttgta gtagtgattt accacagtat tt 412

<210> 10273  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <400> 10273

agcttccaca catcattttt ctggaattgc ttctgaatag ccatttagca cctactgctt 60  
 tctttccttg aggttctaga gttgtaaaact ctataggcct tagatatatt aaagtatcca 120  
 agtattattc cattatcaca cttagagtca aactttccca agttgtcttt aatatttaga 180  
 atgaaacatt gacatctgaa aggatggaaa tatgaaatgt tgggctttca tcctttccac 240  
 agttcatgtg gagtcctttt ca 262

<210> 10274  
 <211> 261

<212> DNA  
 <213> Glycine max  
 <400> 10274

agcttggttca ataaagacag tatcatcagc atactgaagg atattaatag gctctttctg 60  
 ttttcccacc aagtagcttt tatacagatt tttcgaaatg gcctctctca tcaatccagt 120  
 gagaccttca ccacaatat taaagagcaa aggggctaga gggccccctt gtctcagacc 180  
 tcgagtaggg gcaaattcat tagtagggct accattcact aaaatggaaa tagttgctga 240  
 ttgaaggcat gcagcaatcc a 261

<210> 10275  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <400> 10275

agctttgtat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60  
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 gaagatttcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgcct gcactgcctt 240  
 gggagagagg ataacagatg aaaa 264

<210> 10276  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <400> 10276

agcttttttac tgaatttgca tcgttccaat tgatttcaaa atggtgtaat cgattacaag 60  
 atattggtaa tcgattacca gtgtatctga acattgaaat tcaaaatcaa ttgtgaagag 120  
 tcacatcctt tcataaaatg ctttgtgtaa tcgattacat ggttttggta atcgattacc 180  
 agtgacaagt tttgaataaa aaagtcaaga gatgtaactt ttctaattggt tttcagggtt 240  
 ttcttaagat tataactctt cc 262

<210> 10277  
 <211> 263

<212> DNA  
 <213> Glycine max  
 <400> 10277

catgcaagct ttttgtttct tgaataattc aaaccctta aacagttacg acggctaatt 60  
 tgcttagctg gtagctgcct ggccgcacag ataatgagaa taagaactac tggaacaccc 120  
 ggatcaaaaag gtgtcaaagg gctgggttgc cactttatcc tccaaaagag agtttgcaag 180  
 ctttgcaaga gagccaacat agccaaagct ctggtggact taatggtggc gaaaaaatgc 240  
 atcctgattt cttgcagaaa aac 263

<210> 10278  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<400> 10278  
 agcttttttta tcaagttacc aaatgcattt cgaagccgc gaggaagagc attcattatc 60  
 ttatccagct cagtttttga atcataaaca atttttggac ccactctct cataaattgc 120  
 aaccattgag gctctctgac aacatctcct agatactcgg ctgcaacaag ctcgtattga 180  
 atgctagaat ccacatacaa atgactacga gtagcatcat tcctaatagcc aatcccaagt 240  
 tttgaagacc cttggagat 259

<210> 10279  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<400> 10279  
 agctttgaac tgatattctt attattcaat gcattcctca tcttgtaaac atagtcattc 60  
 aaagcattca ttgtattagc cttcttcatg aacttctat catcaacctg ataattctca 120  
 gcttcatgaa tcattcttat aatctcctca gctgaaagcc ttttttggtc attggttatg 180  
 gtaatctcat tcctataacc agtggttggt tcttccacag aaacagatag aaggtcgttt 240  
 acatctatag taaagctaca 260

<210> 10280  
 <211> 263

<212> DNA  
<213> Glycine max

<400> 10280

agcttattttt tttaggctcc gtaaaaaaag gaaaatagca taaagagaca atggggtaga 60  
gaatttttga aatgcttagt tacccttttg gataatatga taagtatctt cagcagctga 120  
tcgcgtggct gcgacctgaa attggaagtg aaaaaataa ataaataggg caattaatta 180  
aggaaagaga aagagaagag aaaataactt acagctccga tcttaaggaa accatcaaca 240  
gtgagattga gaaatggatt acc 263

<210> 10281  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 10281

tggtctgaac tgttcaactcg gatctctgat ttaggcacat cacatatata gacgctcgaa 60  
attgaacaac ggaagctctc gagatattca aatggtcata actctaactt ggaggactga 120  
gacaggcaca taatatatcg cgacgccccg aattcaacaa cagaagcact tgagataatc 180  
aaatggatcat tactttttaac tcagatgtac gtgtcccgcg catcacgtgt cgatactctc 240  
taaattgaac caccgacgct ctcgagataa tctaattgggc aaacttccca ctctgggacc 300  
gaatcacgag catcaacatc gagacgctcg taattgaaca atggaagc 348

<210> 10282  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10282

atgtctctng gtgatggat tgagatgccc gatctnttta gtgttggcca gtttggagag 60  
caagtctact ctagtgttgn tctcccttgg tatgtggaac aactcatagc aatcaaagtc 120  
atcaatgatg gtttttgcaa catgatagta cttgaacctt ggcttgatat ntgtttgcaa 180  
cttgccctta aacaaggtat gagtcagtgt aacaccttat ctttttggct ttaacttctt 240  
ttgctagctt taggcatggt ataagtgcct catatttagc ttgattgttt gatgctttga 300

aattgagctt gagagcttgc tctaaagtaa cattgtcgag cccttcaagg atgatgctng 360  
tccctac 367

<210> 10283  
<211> 435  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10283

agcttctaca ttcaatntcg agctnttcga tatattacgg tactcaatcg gacatccgag 60  
taaaaagtta ttgtagtttg aatttgctca gggcttcgggt attccatttc gagcgtctcg 120  
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttgttt gaatttgctc 180  
agagcttcag tattccattt cgagcatctc gatatattac gggactcaat cagacatcgg 240  
agtaaaaagt tattgtagtt tgaatttgct cagggcttcg gtattccatt tcgagcgtct 300  
cgatgtatta cgggactcaa tcagacatcc gagtaataaa gtattgtcgt ttgaatctgc 360  
tcagagcttc tacattcaat ttcgagcttc tcgatatatt acgggactca atcacacatc 420  
cgagtaaaaa gttat 435

<210> 10284  
<211> 451  
<212> DNA  
<213> Glycine max  
  
<400> 10284

agcttgaacc aggataacag tttatatcta tatcaattag agtttatcga agtagaagat 60  
accacaccat ggcaagctaa tgtaacttgc tccaagggca aagtttccaa tccatccatt 120  
ttgttttaac tagaaagaaa tgtagaactt ggtcaaata tcaaaataag caagagaaat 180  
agaaaatata aagaaaaaat caggacaatt aaaaaaaac tacctttaaa ggaggcgcag 240  
aatatatata agacagtatg gctccacca ctgcaaggta aaatactata gggaaatcat 300  
gccctgcctg taaaagagaa tacttttacc aatcaagctt ctgataaaaa acgaccatga 360  
gactattgtg tattgtaccc acccatatgt ccaatatacc agccagagaa agaccaccaa 420  
gcagcaacac ccatatttga gtgattacct g 451



<210> 10285  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10285  
  
 agctntatct aanattntgc attntgtatg atagatgttc tctctttggc attgagatag 60  
 atcacaagat tgacctccaa ggagccttct aaccattagg aggtcacctt cttcatgggg 120  
 gtagacttcc tcactagact ctttcacccc ttacttcac ttcacttcca cttagaggaag 180  
 aggaagaagt agtctcctct tgactactat aaatgtcttg acccctcata atcatgggtt 240  
 tctttatggg gcattgagag gcaatgtgac ctctcccaag acatttgaag catttaatgt 300  
 ttcttgttct ttcttgggaa ctagtcttag ggggtggattt ctctattgtg ttacccttat 360  
 cttccttggg ttntgaaagt gcagccccc aaattccttg gagtttgtcc ttccttggat 420  
 aagagtga 428

<210> 10286  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10286  
  
 agctntaatc aagacaaaga aattaaagat attcaagatg gatgatcaag acagtctcta 60  
 gagtcttagg aaggggtatat taaataggaa gagaattcct aactgaagta gcaaaagggt 120  
 tggccaagta atttaagtta aaaagtgttt ttcaagagat ttactctctg gtaatcgatt 180  
 accagaggat gtaatcgatt accagtgacc aaaaatgatt tacaacagct attaaaattt 240  
 gaattcaaaa tttgcattgt gtaatcgatt acacatatat gataatcgat taccagcagt 300  
 tattgaacgt tntaattcaa attntaaagc ttgtaatcga ttacacacat actgtaatcg 360  
 attaccagag aagattttca naaaatattc tcaacagtca catcttttca ttttgttctt 420  
 gatggccatc acaggcttac atatatgtga tatga 455

<210> 10287  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<400> 10287

agcttctcga tatgtgatgt gcttgaatcg aacatccgag ttaaaagtta tggcgatttg 60

aatttcccgga gagcttccgg tatttaattt tgagcatctc gacacatgat gcgcatgaat 120

aggacatccg tgtgaaaagt tatgaccact ataatttctc gagagcttcg ttgttcaatt 180

tccagcgact cgatatgtaa tgcgcctgaa tcggacatcc gagtgaaaag ttatgaccat 240

ttgcatttct cgagagctct cgtcggttcaa tttcaagcgt ctcgatatat tatgcgcctg 300

aatctgacca gcgtgtgaaa agttatgaca atttgaattt ctcgagaact tcgctttcaa 360

tttcgagcgt ctcgatatgt gatgcgcctg aatcggacat ctgagtgaca agtgatgacc 420

atatcaattt ctcgagagct tgctgtagtc aatatcgagc atctcgatat ctaattc 477

<210> 10288

<211> 136

<212> DNA

<213> Glycine max

<400> 10288

tgaatcggac atccgtgtga aaagttatgt ccacttgaat ttctcaagag cttccgtagt 60

tcaatttcga gcttctcgac atattatgcg cccgaataag acatccgtgt gaagagttat 120

gaccatttta atatct 136

<210> 10289

<211> 405

<212> DNA

<213> Glycine max

<400> 10289

agcttataat atatcgatac gctctaaatt aatctttgga aactctcgag aaattcagat 60

gatcatgact tttcacacgg atgtccgatt cgggtgcata atatgtcgag aggctcgaaa 120

ttgaacaacg gaagctcttg agatattcaa atggtcataa ctattcacac gaatgtccga 180

ttcgatccca taatatgccg ataggctcga gattgaacaa cagaatctct tgagaaattc 240

aaatggatcat aacatttaac tcggatgtcc aatttaggcg catcacatat agagatgctc 300

gaaattgaac aacggaagct ctcgtcagat tcaaatgagc ataactgttc aactgatgt 360

ccgattcacg gttatcatat attgatacgc tcgagatata acatc 405

<210> 10290  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10290

tggagntntcc aagtgccaat tctgtcttctt ctttagtcca ttctttcttct ggcttcaatt 60  
 catcaatggg ctttccttct gtgtccagca tctcgagatg ttcccagcct ttgatgacag 120  
 ctttcagggt tctgctatcc aatgatttga ggaatgccac catccttgc ttccagtatt 180  
 ctaatttgggt tccatccata atttgnngtc tattcactgg tcttccttc 229

<210> 10291  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10291

agcttgagaa ggttgattnt cgtctcanag tctgtgatga aattgtgata taattgtatt 60  
 aaagcatcac cagcctgaaa atttatagga agaaccgttt gtcaaacaaa taaatntaaa 120  
 ctataataag aatatgcaca tcagagtatg aatattgttt caatagaagt caacanaagt 180  
 tctatcagaa gcaaaagaaa gtaacaatac tcacaaattg tgcaacataa tgaatggaat 240  
 caaacataat aggtaattgt taagtagaag cattagaaaa ataatgacta aaatacaata 300  
 aagttactta tagtttctca aactacgcat cttgatactg aagtcaattg atgacgtgga 360  
 ttgatgcttc accacattga ataataacaa agataacaaa gactttccaa gtgcaatttg 420  
 atgcctcana tggcaaaaga atccttgtat taaatggatg atagaatatt ac 472

<210> 10292  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<400> 10292

tatgtctggg caagtataaa tctgagcata cataatactt cctaacattc cagttgcaag 60  
 caagatatca tcaacataaa gaattagaaa aataacctta ctcacactga cattcaaata 120

tatacaccca tcaatattat ttttcttaaa tccaaagtaa acaatggat cattaaactt 180  
 caaataccat tggcggaag cttgcttaat atcgatatatt gatttcttta attgcacata 240  
 atatattcct a 251

<210> 10293  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10293

agctngctta gccgatgtag cagattctat cttggcaaag ttttgaggat ccacacactg 60  
 gtgaataagg aaacgagcct tacaattcat tttcttgat tctctgaacg tactcttttg 120  
 tgcttccctt gcattcttct ccaattcttg aagtccaatc gtgacaaact caagaacatc 180  
 ctacattcca aagatgattt tcatttgaat gcaccatgca tcgtagttct ttccatcaag 240  
 gattggaaaa tgcgctggaa actcgttccc attcatctct acaacaatga agcttcaaag 300  
 atcccacact aaaaccaatc aagactctcc caacatcgat ggaacctgaa gctcgtgata 360  
 ccactgtcga acccgattgc tcgctgtaca agcaaaccag aaacttgaca aatttggatg 420  
 aagttgagtc ttgaatgatg aagacaagag agaaagatag ttatgaagag aatg 474

<210> 10294  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10294

agcttgatca tccactgcac aagggtcaag ctgttgcgca tgaagatgac agtggaaca 60  
 tcttgagtgt atattttcag gtggatttgt acacaaagat tcccagcatt cctcgactg 120  
 gaagtgtgc taattgggct gatgcagntg ctgaagtcaa gggagaataa ttgatcacta 180  
 ctaaaaaagt atgatcaaatt caaaacttgg tgtaaaaaata actaaaaatg tcctagtaat 240  
 tctgtttgta gatgcatgtc taatgaaggg aagaagtga cactccccat ttcatcccca 300  
 agtaataagg ttcagagttc aggcactgca aaaaccttgt acttgaagtt gtttggtaga 360  
 aatgtatgtt acttctatgt taaaaaggac tttttcagca gaatcattct tgttgtaact 420

ntataagcaa tactcgtttc ttttaattott ctccctctnn ttcgttccat aaatc 475

<210> 10295

<211> 383

<212> DNA

<213> Glycine max

<400> 10295

tgatgccaac attggagagg ttaatgaaac aacgagatga tgcgctccat gagagggttg 60

atcaaatgga gaatagagat cataatgaag aataaaggag gagaagaggg aatgatggta 120

ttoctagaca aaaccgaatt gatggtatta aactcaacat tcctccattt aaaggaaaga 180

atgatccgga ggcctacttg gagtgggaga tgaaaataga gcatgttttc tcatgcaaca 240

actatgagga ggacaaaaag gtgaagcttg ccgccacgga gttttccgac tatgctcttg 300

tgtggtggaa caagctacaa aaggagagag caagatatga agaggcaatg gttgatacat 360

ggacggagat gaaaaagatc atg 383

<210> 10296

<211> 234

<212> DNA

<213> Glycine max

<400> 10296

tttccaacct ctatacatat tatgctcccg atatcaacat ccttggttaac acctatgacc 60

attaaaatat caccatattt ttcgacttat aatttccatc gtatcattat attattatcc 120

ccaatcgaaa ctcttatta aaacttatga ccattttaat ttcacatat cttttctttgt 180

tacatcttcg atcgtctatt tttatgatc tccttattct atcatccgaa ttaa 234

<210> 10297

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10297

agcttataat atattgataa gctcgaaatt aatcatcgga aactctcgag aaattcaa 60

ggtcataact tttcacacgg atgtccgatt cgatcgcata ggatgtcgag aggctcgaat 120

ttgaacaacg gaagggtcttg agaaattcaa atggtcataa cttttcacac agagggtccga 180  
 tncnggctttt atttatatcg atacgctcga aattaaacat cggaaacact caagaaattc 240  
 aaatgggtcat aactttttcac acggatgtcc gattcaggct tataatatat cgatacgtc 300  
 gaaattaaac atgaaaaact ctgcgaaaa tcaaatggtc ataactnttc acacggatgt 360  
 ccgatccagg cgaatcacat atcgagacgc tcagattgag caacagaagc tcttgagaaa 420  
 tatcaatggc cattactttt caca 444

<210> 10298  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10298

agcttatatt ctcgaccaat ctcttttggt ttcgtttgtc cgggatttaa tttattttgt 60  
 tcattcctat tctttggatt ttttttttgg tatagtatca tactgtacag cttgtacagg 120  
 aatgatgtaa atccttcttt aatatataaa atcttgtctt tgtctttttt aaaaaattac 180  
 tctctttgca tttttttccc atttgacgca tgttttctct gataattttc tgagttcaaa 240  
 ttttatttaa gacatgtttg gataaattat tttggaagga tttttaggaa taaaaaataa 300  
 gaagacaaaa aaaaaccttt tttattgact aaaattaatt tatgcataaa caaatgtgta 360  
 gaaattntat catattaata tctctaaaaa atgatttttc atttatacat aaattaattt 420  
 taactcataa aaaattcttt cactttttct ttttattgtc tcttttagga gtatatct 478

<210> 10299  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <400> 10299

agctcgaata tcttcatttg agttatgcaa acctatccaa agcatttcat tggctacaca 60  
 ctctccaatc tcttccttct ttgaccacc tagatttgtc aggatgcaca ctccctcact 120  
 ataatgaacc atccttgtct aacttctcat ctctgcaaac tctccatctt tccttcaacta 180  
 gtttttcccc tgccatttct tttgtcccca agtggatatt caaattgaaa aaacttgttt 240  
 ctcttcaatt atggggtaat gaaaaccaag gtccgattcc tggcgggtatt cgaaacctca 300

cacttcttca aaatcttgac ttgtctggaa attcattctc atcttctata cctgactgct 360  
 tatatgggct tcacgtctc aagttcctca acctaaggga caaccacttg catgggacta 420  
 tatctgatg 429

<210> 10300  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10300

cttcttctgt tcagataggt acccttttga gcttggacta tgctcgaaat gcttttgggtg 60  
 atgatgatgg aaacatggcc tccttgttca tgtataactg tcttattaga ggttatgctt 120  
 cagcagggtt ggggtgacaa gcaatcttgc tttacgttca gatgctgggtg atgggcattg 180  
 tgcccgacaa gtacactttc ccttttttgc tgagtgcgtg ttctaagatt ttggcgcttt 240  
 ctgagggtgt tcaagttcat ggggcgggtt ttaagatggg tttggaggga gatatatattg 300  
 tcagcaactc tttgatacat ttctatgagg agtgcgaggaa ggttgacttg ngacgaaagc 360  
 tgtttga 367

<210> 10301  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10301

agctgtatct atctgccag ccttacaatg actcatcaat taaagctgta tatgtaacaa 60  
 catttggtt ggaaccttca agcaacatca tctcaaatag tttatttgca tcaaacacct 120  
 ttcttgcttt caggatgca tgaataagag aagtataagt caccacattt ggggtgcaat 180  
 tgtctcttaa catttcatca aaccaattgc gagcctgttg aataaggcca gctntgcaaa 240  
 agctatcaat taaaatagta tatgtataca cactgngaac aatgccattc tttttcattt 300  
 cttcgaataa cananaagcc ttctctacct tggaggcatc acaaagaaaa ccaatcactt 360  
 tagaatacgt actatcatcg ggaacaaaac ccttgctcat catttcgcat ataattctca 420  
 aggctntatc aaactttcca gctccacaga gacacc 456

<210> 10302  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10302

agcttgtgag agcncctatg gtgacctgtg actgaggctt gctggcgagg tctgagacga 60  
 accatgacca agtctccaat tttaaattca atatecctgc gcctttttatc tgctgagtgt 120  
 ttcataatta cttggggcctt cggaagcttc ttctttaagt cttgaaaaat ggactcccta 180  
 ttagtcagaa actcgtcaac agcttccact tttgaggtac ctgtaacata tgatggcaaa 240  
 tctggtggcc tccggacaaa ggtgacctcg aagggggaga caccagttcc tgaatgggtgg 300  
 gaggtattgt angaccattc ggcccaggga aggaacttac cccacgaaga aggtttcttg 360  
 tggacaaaag ctcgaaggta ctactcaagc acccggttca gcacctccgt ttggccgtct 420  
 gtttgggggt gataagctga gtcacccctc agttgtgtgc cacttaaccg aaac 474

<210> 10303  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10303

tcagcttgca tacaagattc tccttgccctg gcacttcana accttcttgt tgggtcatat 60  
 agatgtcttc ctctaaatcc ccatgcaaga atgcagtttt aacatctaac tgctccaagt 120  
 gaagattctc tgcagctact atgctcagaa taactctgat ggtagtcac tttacaactg 180  
 gagagaagat ctctgtgaaa tcaattcctt gtttctgctg aaaccctttc accacaagtc 240  
 tcgccttgta tcttcttcta ccgtcagatt ctctcttttag cctatagacc cacctattct 300  
 gtaatgcctt ctttcttctt ggcaatttag ttaaagacca cgtcttattc ttctgaaggg 360  
 atgtcatctc atctttcatc gctagc 386

<210> 10304  
 <211> 445  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 10304

agcttaacaa tcaatttcga gcgtctcggt atatacggga ctcaatcaga catccaagta 60  
aaaagttatc atcgtttgaa ttggctcaga gcttcaacat tcaatttcga acgactcgat 120  
atatgatggg actcaatcag acatccgagt aaaaagttat tgtcctttga aatggctcag 180  
agattccaca ttcaatttcg agcgtctcaa tatattacgg gactcaatca gacatccgag 240  
aaaaaaatta ttgtcgtttg catatgctca aaggttcaac attcaatttc gagcgtcttg 300  
atatattacg ggactctatc agacttccga gntaaaagta ttgtcgtttg aataggctca 360  
tagattcaac attcaatttc gagcgtctcg atatatgacg agactcaatc agacatccga 420  
gtaaaaagtg attgtcgttt gaata 445

<210> 10305  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10305

agctngaattg aggaagtgtg gaatggtaga atcagtnntg aaaactgagg ggcaagctgg 60  
gcatttgtct gctagaggaa ttatagcagc tactgctatc tgaacgtgct caaacgtctc 120  
acttaacatt aatagcacgt tcaactactga gccaaaacaa attcgaccgt tgcttcacac 180  
gtccctctac attcctcatt caaacttata ttttcgtggg aatctcgttt tcagcatacc 240  
ccaacagctc tcagagattt acgaaatcat tccaaacgct ctgcttctcc atggctacct 300  
caccaaaaga aatttcagct cctggttcac cctctgtacc atcatctcca tcatccacca 360  
nagcaccatc aaaccaggaa cgacctgaat tcaatatcca gcccatag atgattcctg 420  
gtcaagcccc tgttcctgaa naactgggtc ccaaacgaca acagggagt 469

<210> 10306  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10306

agcttgtgtc acactttcaa ctgccgaagc taaatatatt gccgcatgaa gttgttgtgc 60  
tcaaagtctc tagatgaagc aacaactaca agactttaga gtaaacccttg atcacattcc 120  
tctaaaatgg gacaacacaa gtgttatcaa tctaaccaaa aaccctgtca tgcatttttag 180  
gactaagcac atagaaatta ggcataatga atgcatcaag catagaataa cattctgttt 240  
gtacaagtat gtgattcaca ttgctattca tatcattttt tttgttttagt ttgtgtotta 300  
gttattgatt tatgtgcata ctcatagatt tgtttgaata tcacatgttt ttcttagtaa 360  
tttcgtgatt tctctttgtt ttaattgatt atgcttggtt ntaatcaatt tttgtatgat 420  
atctgtttgg taag 434

<210> 10307  
<211> 472  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10307

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgant 60  
ccattgcttc caaagtttca tggccttgca ggtgaagatc cgcacaaaca tctgaaagaa 120  
tttcatattg tctgctccac catgaaaccc ccagatgtcc aacaggatca catatttctg 180  
aaggcttttc ctcatctttt agaggaggatg gcaaaagact ggttgtatta cttgctcca 240  
aggtccatca tcagttggga tgaccttaag ggagtattct tagaaaaaaa atttctgct 300  
tccaggacca cgaccatcag gaaggatatc tcangtatta gacaactcag tggagagagc 360  
ctatatgaat actgggagag attataaaat tatgtgccag ttgccctcac catcagattt 420  
cggagcagct tcttctccaa tatntttatg aaggactcag taatatggag ag 472

<210> 10308  
<211> 177  
<212> DNA  
<213> Glycine max  
<400> 10308

tctgtgaaca cttttccttc attaccaccc caatctccca tacatcttct atctatcttc 60  
cagccacccc ttcatcacca ataaattgcc tgcatatcat atgatcccca ccacaaacac 120  
tctcattcac tcgatttgct ccacacttag aaacaaaaac tcttgacgaa tcatatt 177

<210> 10309  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10309

agctngatgg tcagccagag ttgttcattc acattatttc tgacaagacc aacaacacat 60  
 tgtctatcat tgacaatggg attggcatga ctaaggctgg taagggttaa tatttggtta 120  
 gtctttgtga gattatcgcc aactgtgctt gttagttagt ctattttctc taatgcttgt 180  
 gcgtttgatg ttccagattt ggtcaataac ctcggtacta ttgcctctct tataacaatt 240  
 tttcactggc atgcaccatc tgaactgatc aaaacaaaaa gataatatat atatatatat 300  
 atatatatat atatatatat atatatatat tacgaaaaaa tagttcacat gacaatatta 360  
 tggacaatat atattttaac taggaaatca tctatcatgt gtgtcatgat atgcagcgag 420  
 taaattntca caacctcatc aacctcaaaa ccacaatcc 459

<210> 10310  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10310

agctngaagtg ctcatttgag cttatatgca tgttattttac acacaaaggg aaagggagag 60  
 ataactgacc aaatcttttc atggctattc ttccagaaga acgctcccct gatgtagttt 120  
 cgtttatagc ttggaccatc tcattttttgc tgacatatcc atccttggtc ttgtctaaga 180  
 atacaaatgt atcaacaaaa gtctcaaagtg tgccctccag ctttggcatc ccaattcgtg 240  
 atttctaggg aagtcattga aaaaaatttg aagatgtagc aaaacatgga aattcaaggt 300  
 ttattgttat caatgcaagc atgatgaaat tctaggctgc cctgaagaaa tgcattgaaat 360  
 gtccataaaa taaaataaaa aaggaatgaa catatagaat tgaattgttc ataaagtaca 420  
 aacatcttct gaattataga aatgatagcg gcataagctg canaaagac 469

<210> 10311  
 <211> 474

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10311

agctntacga tcaacaaagt ntgtcaattc atctctaate ccttagacac tcattgggtg 60  
 gcagttaaac gtattctaag gtacctcaaa ggggccattt ctcatggtct tcattctcaaa 120  
 cctacaattt caggaagacc tctctccatt cgagctctct gttatgttga ttgggtcttt 180  
 gatgttgatg atcatagatc aacatcacaa gtggcaattt atttgggccc taatttggtg 240  
 tcttgggtggc ccataaaaca agttgtgaca aggtcaagca ctggagcaga ataccgtagc 300  
 ttaactcagg ctacacataa aactttatga attcaaacac ttctcacaaa actgggagtt 360  
 cctttcaccg taccagtcac tttttgtgat atccaaagtg ttgtagcact aacatataat 420  
 cctgttcttt gtactcaaac caagcacata tgagataatg ttttctatgt tcga 474

<210> 10312  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <400> 10312

agcccaagaa cttgagttgc aacctagaca ggtagccgta ttgttccaaa accgtcgagc 60  
 cagatggaaa accaaacaat tggagagaga ttatgggtga ctcaaagcca attatgatgc 120  
 tcttaagctt aactttgaca cctcgatca ggacaacgaa tccttacgaa agcaggtaga 180  
 ataatactcc ttccaaaata taaacaaatt tcgattattt atctgactta ttaatgatat 240  
 tttctccaaa ttatattgta tttaa 265

<210> 10313  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10313

agctntgaat nggtctctgg tcttaagata aactacaata agagaaaant tgggtgtttg 60  
 ggcaaatccg aggactggtg taaggaggca gcattctctc tcaattgtag tcaaatggat 120  
 attccattgt cttaccttgg aattcctgta ggggtcagct ctaaaaatag gtctgtgtgg 180

cagcccatta ttagcaaatg cgaggctaaa cttacaaaat ggaagcaaag aaatctatca 240  
atgggggggta gaataaccct cattaattca gtcttaacag ccttaccat ttatttgcta 300  
tcctttcttca agattcctaa gcttgtggtg caaaagatta catctatacc aaaggaattt 360  
tgatggngca gcctccaaga ctccattaag attccttgng tgaggtggga catagtctgc 420  
ctaccta 427

<210> 10314  
<211> 471  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10314

agctnggact tcctgtgttg tgggaacctc tccttctca ggtgtacca aaccaatca 60  
cctggttcaa gcacgacttt ctttctgctt ttgttggtt gccttgcata gctcgcattt 120  
ttcttttcaa tttgaacctt cacttgetca tgcaacttct tcacatactc agctttagcc 180  
tgtgcatcct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240  
aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300  
cgattataag caaactcaac atgaggcaaa caggcttccc aagatttaag atttttcttt 360  
aaaacagtcc taagcagtgt gcctaaagtc ctattgacta cctcagtttg accatcagtt 420  
ngtgggtgac aagtagtaga aaacaacaat ntagtacaa tcttacccca c 471

<210> 10315  
<211> 361  
<212> DNA  
<213> Glycine max  
<400> 10315

atgaagcaat caccaagtca atggtacaag agacttaatg agttcattgt ctctcacggg 60  
tacatcagaa gtccctatga ctcatgtgtt tatcatagta aggtgaaaga cgattctcac 120  
atctatctat tgctctatgg ggacgacatg ctcaaagcat ctcaaaattt gttggaaatt 180  
cagaaggatga agtcactact caatagtga tttgagatga aagacttggg agttgttgaa 240  
aagattttgg gcacgggat caagagggat aaagtccaaa agaagttctt tatgcataag 300

aaggaattca ttcaaaaagt actaactcat tctgggatgg catctgcaaa gcaagtatgt 360

a 361

<210> 10316

<211> 327

<212> DNA

<213> Glycine max

<400> 10316

tatgctacat atatctacaa cagacctcct caagctcagc agctaaatca acaacaatag 60

aacaattatg acctctccag caacagggtac aatcctgggt ggaggaatca tccaacctt 120

agatgggtcga atccttcaca acagcagcaa caacaacaac cttattttca aaatgctgct 180

ggcctaagca gaccatacgt tcgtccacca atccagcagc aacaacagct acagccccag 240

aaatagaaaa cagttgatgc tcttccgcaa ctttcccttg aagaacttgt gatgcaaatg 300

actatgcaaa acatgcagtt tcaacaa 327

<210> 10317

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10317

agcttttgga aaaggaataa gaagaagaag atgttcanaa agatgttcaa aaagttatga 60

aaaaagttat taaaattcaa gtcaagggtc tgcttttata gactcttcat gtctgggtcaa 120

gaaaaccatt agaagagtta taaccttgaa aaaaacctga aaacaattgg aagagttata 180

tctcttgact ttttattcaa aacttgatcat tggtaatcaa ttaccaaaat catgtaatcg 240

attacacaaa gcattttatg aaaagatatg actcttcaca attgaatttg aatttcaata 300

ttcagataca ctggtaatcg attaccaata tattgtaatc gattacacca tttaaaaatt 360

aattggaacg ttgcaaattc agttaanaac ttttgaaatc aaactttgcc actggtaatc 420

gattacaggt aattggtaat cgattaccag agaataaaaa ct 462

<210> 10318

<211> 363

<212> DNA

<213> Glycine max

<400> 10318

tctgtccctg agatactggt tcccagaaga caacatggag tgtagattgc tgaataccct 60  
agccctgcta caattcctat ggaagtatac acggagatgg acaagataat ccgcggtatt 120  
gtgagtagca ttctgaatga tgcttctgtg cctgatgctg agaaagatgt tccaacatct 180  
tocaccccag atgtttctgt gcctgatgtc aataaagatg ttccaacatc ctccgctcca 240  
aatgctgaag ccctcccttc acccagtgaag gaggaatcaa cagatgatga ggatcaagtc 300  
tcagaggaga cccctgcacc aatggcacca gaacctgctc catgtaacct cattgacttg 360  
gaa 363

<210> 10319

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10319

caagcttttg canaggaaga ggagaggaag aagttcaaaa naatgttcaa agagattcaa 60  
aggttgtaaa agtatatatg aaaagttata tcaagttttt aaaatgcaag tcaaggctct 120  
gcttttatag actcttcatg tcagggtcaag aaaaccattg gaagagttat aatcttgaga 180  
aaatcttgag aaaaccattg gaagagttac atctcttgat ttttattcaa aacttggtcac 240  
tggtaatcga ttaccagaac catgtaatcg attacacaaa gcattttatg aaaagatgtg 300  
actcttcaca attgaatttg aatttcaacg ttcagatata ccggtaatcg attaccaata 360  
tattataatc tattaaacca tttaaaaatc aattggaaca ttgcaaattc agttaaagc 420  
tttngaaatc aaactttgcc acttggtaat cgatacagga aactggt 467

<210> 10320

<211> 394

<212> DNA

<213> Glycine max

<400> 10320

ctcagcttaa gaataatggc ctcagcaaac ttcttattcc cagaaggaaa ctctataaat 60  
aggcctccta tttttaatgg ggagggttac cactactgga aaactcgaat gcaaattttc 120

attgaggcaa tagacttaaa catttgagaa gccatagaag ttggacctta tgtacccacc 180  
atggtggctg gtaatacaac aatagagaaa catagagaag agtgggtctga agaagaaaga 240  
agattagtag aatacaattt aaaggctaaa aacatcatta cttctgcctt aggaatggat 300  
gaatatttta ggggtgtcaaa ttgtaagagt gctaaggata tgtggggacac tctacaagtt 360  
acacatgagg gaacaactga tgtcaaaaga tcag 394

<210> 10321  
<211> 480  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10321

agcttgccta attaacctan aattgagaga gaatgattat taaacacata aaacgaaaat 60  
actaagtatt tattaccttt acttaacaga aaatacttat aacattacaa aataaccata 120  
aattgggaga gtttgataga atttatacaa gttttataca caaaagttag tcgttttctc 180  
cgactaacac ttatggtata ttcctagtag tcaaaacttg ggatgaatca taagaatgtg 240  
ttaaggaggt gttgatgatg agttaccaac ttttaattaa aaattgaaat tttaactaat 300  
ttaatagttt ttttttttgc tttaatcata tatgttttta tcttttttct ttagttcatt 360  
ctatcaattt taaaaccatt agaaattgta atttaattnt ttaaataaat actgaagaat 420  
ttaaaaaacta tcataaatca tttntaaaaa aattcaaagtg tcaccttgac acttaataga 480

<210> 10322  
<211> 342  
<212> DNA  
<213> Glycine max  
<400> 10322

gcttaacatt caatgtctat cgttccgata tattacggga ctctatcgaa catccgagta 60  
aaaatatatt ggttggtgaa ttgctcaga gattcgggtct tcaatttcga gcgcttcgat 120  
atattactgg actcaattga acatacgagt aaaaacttat tgtcgttgaa tatttgctca 180  
gagcttcggt attcaatttc gagcgtctcg atatattacg ggactgaatc agacattcga 240  
gtaaaaagtt atcgtccggt gaatttgcac agaacttcgg attccattct gagcaactcg 300  
agtatattac gtgactcaat tagacattcg agtaacaagt ta 342



<210> 10323  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<400> 10323

agcttggttta ccccatgttg taattgctta caatagagct gttcatagca ccactaattg 60  
 ttctcctttt gaagtgtttt atgggttttaa cccactaact cctcttgatc ttttgcctat 120  
 gcctaattgtt tctgttttta agcataaaga aggtcaagca aaggcggact atgtgaagaa 180  
 gcttcatgag agagtcaaag atcaaattga gaggaaaaat aaaagctatg ctaaacaagc 240  
 caacaaaggg agaaagaagg ttgtcttcga acccgagat tgtgtttggg tgcacatgag 300  
 aaaagaaagg tttccggaac aaaggaaatc aaagcttcaa ccaagggtgag atggaccatt 360  
 tcaagtgttt gaaagaatca atgacaatgc ttacaaagtt gagctgcca gtgagtataa 420  
 tgttagtccc accttcaatg tctctgattt atctcttttt gatgcagat 469

<210> 10324  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10324

agcttcaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
 ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
 agttgagtc aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240  
 atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcatcactc 300  
 atgagttctc tgcagccatc acaccacaac aaaatggcat agttgaaagg aaaaacagga 360  
 ctttgcaaga agctgctagg gtcattgttc atgccaaaga acttccttat aatttctggg 420  
 ctgaagccat gaacacagca tgctatatcc acaacagagt cacactta 468

<210> 10325  
 <211> 338  
 <212> DNA

<213> Glycine max

<400> 10325

cacacctctc taatagctaa gttcacctca tttagatgag aagctagagc ttagctacac 60  
acccccctata atagctaagc tcacccatat gccaaaaaac atgaaaatac aaaaaaagtc 120  
cctactacaa agactactca aaatgccccg aaatacaagg ctaaaaccct atactactag 180  
aatggcctaaa atacaaggcc aaaacaaagg aaaaacctat tctaataattt acaaagataa 240  
gcgagctcat acttagccca tggactcgaa atctaccata aggctcatga gaaacctatg 300  
gccttccttt ggatctctag cccaatctac ttggagtc 338

<210> 10326

<211> 263

<212> DNA

<213> Glycine max

<400> 10326

tcggatagcc gagcaaaatg ttattgacgt ctgaatatgc tcagagctgc ggtattcaat 60  
ttcgagcgtc tcgatataatt aagggactga atcagacatt cgagtaaaaa gttatggctg 120  
tttgaatttg ctcagaactt gggatttcca ttatgagcaa ctcgatatat tacgggagct 180  
caatagacat tcgagtaaca agttatcgtc ctttgaatgt ggtcagagct tctatgatca 240  
atttcgagcg aattaatata tta 263

<210> 10327

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10327

tagagcaatt cccttatgtt atcaaacata aaaagggaaa aggtaatat gtagccgatg 60  
ctctttctcg gcgtcatgca ttactttcta tgcttgaaac aaaattgatt ggtcttgaat 120  
gtttgaaaag catgtatgaa aatgatgaaa cttttggaga aattttaaaa aattgtgaaa 180  
aattttcaga aaatggtttc tttagacatg aaggctntct tttcaaagaa aacaaattgt 240  
gtgtgcctaa atgttctact agaaatttgc ttgtttctga agcacatgaa ngatgtttta 300  
tggggcatctt tgggggtccaa aagactctat aaacattaca agaacatttt t 351

<210> 10328  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10328

agcttcttca agccaaaact tgaatgatta gaaatgaaac tattatttcc ataactaagc 60  
 anttggttga actgccaatc tgtctgtata cccaacacaa atgggttctga acctgagtta 120  
 tcttgaaaat agaaaacatg cttctgatgc cgctgaaccc atatctttac actgcattca 180  
 tcattttcgt gtagctcatg tgaagaatta cgaactgtcc tttccatggt acgcacatca 240  
 tttcgagtga gaaaatcatc acgggttttgg gggccacctt gcttctgcat cccctctgca 300  
 tgggtgctgga ttatcttgtc caacgatatt ccaacataaa gcatagacat cactttctgg 360  
 cgtaactcat ccgaaattcg cggagcatac atagct 396

<210> 10329  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10329

tgatgcctaa aatgtctttt cttatggcat tggtoctaga tgtgttgaat aatttttcca 60  
 agaacaccct ttttaaggtca tcccaactga aaatggacct gggagcaaag tagtatagcc 120  
 aatcttttgc cactccctcc aaagaatgaa gaaaagcctt tagaaatata tgatcttcct 180  
 ggacatcaag gggcttcatg atggaacaaa caatatggaa etccttaaga tgcttataag 240  
 gatcttcacc tgcaagacca tggaacttgg gcaacaaatg tattagtctt gttttgagaa 300  
 catatggaac accctcatca ggatattgaa tgca 334

<210> 10330  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10330

gctattacgt gaccttagaa tactctcgct tctctgatgc ctatgtgtgg accctcaagt 60

gcaatcctcc attctccact tttttcgga ccccatgaat gtcattgcct agcgtattc 120  
atgtgtcctc caccttcgag tctggagccc cacgaatgtc attgcctagc actgttgcgt 180  
aattctccat tctccacttt tattctgagc cccatgaatg tcattgccta gcgctgttca 240  
tgtgtcctcc accttcaagt ttggagctat gcttcattat tgcctaagtg tggacctct 300  
atagcaatcc tccattctcc acttttttct gagcccatg aatgtcattg cctaccgctg 360  
ttcatgtgt 369

<210> 10331  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 10331

aagctggagt tgctgcacat gatgtccaac gttatgtcaa ggaataagat ccggctgcac 60  
aatgtacaag gcaagataaa atggcaaagt aagaattgaa gttgcaggat ccacgatgtc 120  
ggatacaatg tcttgacatc ctgcccgaga atactggagt tgctgtacaa tgcaagataa 180  
aagtcaagtg cagaagtga gctgcaagat ccacgatgtc ggacacgatg tcttgacatc 240  
cggcccgcata atactggaca tataaatctg gtat 274

<210> 10332  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10332

cgcttaagaa aagagctntg agggttatgt tctcaacaat tatttaataa tctcgaaact 60  
gtttatccat atatcttcat tctgatttgt agtttattga ctctgttctg atgactatca 120  
tgtgaacagg tgattggaga gtttttgtct ttaaaaaaag ctgctggaat aaaaaaagga 180  
ttccagctaa tggatacaag caataaaggc aagactaaca ttgatgaact gcgagtaggg 240  
gtgcataaac tangtcacca natatctgat ggggatgttc aaatacttat ggatgctgtg 300  
agta 304

<210> 10333  
<211> 390

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10333

ttgagccaat tcaaacgaca ataactttnt acatggatgt ctgattgagt cctgtcatat 60  
 atcgagacgc tcgaaattga atgttgaatc tctgagccaa tccaaacgac aataacttat 120  
 tactcggatg tctgattgtg tcccgtata taacgagact ctcaaaattg aatgttgaaa 180  
 ctctgagcta attcatacga caataacttt ttactcggat gtttgattga gtcctgtcat 240  
 acatcgagac gctccaaatt gaatgttgaa gctttgagcc aattcaaacg acaataactn 300  
 ttactcggga tgtctgaatg actctcgtca catatcgaga cgctcgaaat tgaatgttga 360  
 agctctgagc caattcaacg acaataactt 390

<210> 10334  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 10334

agcttcaaca ttcaatctcg agcgtctcta tatatgacag gactcaatca aacatccgag 60  
 aaaaaagtta atgtcgtttg aatttgctca gaggttcaac attcaatttc gagcgtctcg 120  
 ttatattaca ggactcaatc agacatccga gtaaaaagat attgtcacct gaattggctc 180  
 agagcttcaa cattcaattt cgagcgtctc gatatatgac gggactcaat cagacatccg 240  
 agtaaaaagt tattgtcgtt tgaatttgc cagagcttca acattcaatt tcgagcgtct 300  
 cgatgtatga cgggactcaa tcagacatcc gagtaaaaag ttattggcgt ttgaatttgc 360  
 tcagagcttc aacatttaat ttcgagcgtc tcgatattatt acgaga 406

<210> 10335  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <400> 10335

agcttaacta atcaaatggg acaattggct acacagttaa atcaacagca gccccagaat 60  
 tctgacagat taccttctca atctgtctag aatccccaaa atgggagttc cattacattg 120

agatcgggaa agcaatgtca aggacotcaa ccagcaacat cttcctcatc tgcaaataa 180  
cctgccaac ctactctac tccagaaaaa gatgatgaca aaaattttaa gagtaagtta 240  
cctaacaatt tctatgaagg tgaatcttcc actggtaatt ctgatttaca aaagcagcat 300  
atccctcttc cattccctcc aagagcaatt tccaacaaaa aaatggaaga ggcggagaag 360  
gagatcttgg aaacatttag aaaagtagag gtaaacatac ctctgctgga tgcaataaag 420  
caaattccaa gata 434

<210> 10336  
<211> 430  
<212> DNA  
<213> Glycine max  
<400> 10336

tcattcttgt cctcaaggcc tcatgtatac tcgtccaaat cgcgaagtga accttggatc 60  
cctgtcagat acaatactag aaggaattcc atgcaacctt actacttcct tgatgtacaa 120  
ctccactagc ttttccattc tatacttcat attcaccgga ataaaatgag cagatttggg 180  
gagtcgatct actatgaccc acacggcatc atgcccacga ctagtcttgg gtaaaactaga 240  
tacaaaaatcc atagatatgc tctccattt ccattccgga atctccaatg gcttcaattc 300  
tcccgatggg cgtgggtgct caaccttagc cttttgacat gtcaaacatc ttgctacata 360  
ttcggctaca tttttcttca tgccatgcc acaaaaactt ctctcaaatc ttggacatct 420  
tatcattcct 430

<210> 10337  
<211> 373  
<212> DNA  
<213> Glycine max  
<400> 10337

tactcggatg tctgattgag tcccgtata taacgagacg ctcgaaattg aatgtttaag 60  
ctctgagcca attctaacga taataactat ttactcggat gtccgattga gtctcgtaat 120  
atatcgacac gctcgaaatt gaatgttgaa gctctaagcc tattcaaacy acaataacgt 180  
tttactcgga tgtccgaatc agtgacgtaa tatatcgga cgtcggaaat tgaatgttga 240  
acctctgagc caactcaaac gacaataact ttttactcgg atgtctgatt gagtcccgta 300

ttatatcgag acgctcgaaa ttgaatgggtg aacctctgag ccaattcaaa cgacaataac 360  
 tttttactcg gat 373

<210> 10338  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10338

agctttagg ccttgtatct tcttcatcaa tggagtcctn tgcttcttga agatcaatgg 60  
 cagcaaaatg aaataggtgg aaaggtgatt ggagacgcca cttcaaggag aagatgagtc 120  
 aagaacaagc tcaccaccat aggaagccat ggataagagc ttgaaggtag gaaaagatga 180  
 gtggaaagag agggagagag gggagggcatg aaatttatgt ctgaaataag gtctgaaatt 240  
 tgaagtgtaa ttctcaaatg atcaaagttg aaaaatacac acacaaggcc tctatttata 300  
 gcttaagtgt cacacaaaat tggaggggaa attgaatttc tattcaaatt tcacttgaat 360  
 ntgaatttat ggagccaaat gtggagccaa aatttcacta attatgatta g 411

<210> 10339  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <400> 10339

tagctttatt aaaaatgata ataaaaaatt aaaaaataac attttaaagt actaagtga 60  
 taaaattaat atcaatttat tttttgcttt atctttttaca actattttaca ttcattcttat 120  
 caaaaaaatt atgttgtgcg acaagatcta tttttttatg ggagtaaaaa aatattttatt 180  
 ctatatattc aattaaat atttagaaca tgttatgaac taaataacat gtatgaatta 240  
 aactcaaat tcaaaagata ggttaagaat gacaataata catgaacaaa tatatctaga 300  
 attcaatcaa aaaaataaaa attcaacaca gacttagaac ataatatgac aattattatg 360  
 actaaacatg aactctagac aacatggatt aagtgaatta cacttagatt tt 412

<210> 10340  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 10340

tggatccaac ccgaatgtta cctatgatag caccatagtg catgtcagca tatggctcct 60  
ctccagtcaa gagttccac atcacaatac caaatgaaaa cacatcaacc taaaatgaca 120  
aatatcaaaa caaaagcctc aaacttacat agtgacaaaa tatcaaggta ccattaacac 180  
atcaacaatt cagcagttcc ggagccatcc atggtagagt tcctctcacc accagaaatc 240  
agcgtctgac attttccttt ggacagaccc aagtcgcaa cctgatatca gatgcaaaag 300  
tgtaaaaggt aaagaaacta ctgaaggatc aactaatcaa ttgctccgtg ctacaagtag 360  
agttgtgctg actagaaagc aagtattgat gatcaaaaat catttagcag aa 412

<210> 10341

<211> 394

<212> DNA

<213> Glycine max

<400> 10341

agcttttgac ctcccaaaca gtgccctgta attccacaga tgaagaaatg ttgttcatat 60  
ttgttgaggg tcaactctgc aggtggagtg gtgaaagtg caataggaga ggctgagctg 120  
caagcatcga agttggcctt tgtaacctcc tctacgttgt gtgtatttga tgcgtagttg 180  
aacactgcaa aacacaccaa tgatttagtc caattgatcc caagctttta aacaattcaa 240  
gtagtttatt ttgtacgatg tgagacttac caaggacgtc tccaaccctg aagtttttgc 300  
cagaggccca agctgtgtaa aaggaagcgt tgccaggaac aatccagcca gcggtttctc 360  
caacaatgaa agtagctggg tcagaggatg gacc 394

<210> 10342

<211> 426

<212> DNA

<213> Glycine max

<400> 10342

tcgtaccgg gatccttagt ggcacctcg gcatgcaagc ttgttagagc ctagtattct 60  
ttgtctacc aatccattgt tggttttgta catatcaaac aaaattgttg tttgtttgca 120  
caatgactaa ctcataatca tcttacagac aaatatgtaa ttttatcact tagtcttttc 180  
tctctgatgc aatcctaccc cccaaggcat tgataaaaga ctccaagaag attgggtcag 240



agatgcagga gaaggcccta gggttctgat gaggccttagg atagatTTTTg agctcatggg 300  
 ctaaatatga gccacttat ctttgtaacat attatatttg agtttcatta tttttgggcc 360  
 ttgtatttag ggctccatag tgtagggagt gtatcctagt aatgtagaat ttttcagccc 420  
 ttgtat 426

<210> 10343  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10343

taatattatg gtcgntatca cttatccctg gactgggtgag tactttcaga agctatttta 60  
 gatgcataat ttatagcgat aaacttgcatg tgcacaaaat cgccatgttt cattaacttg 120  
 gatattttta tgatttttagt ttactatgtg ggaccaaagt gatggaaaaa actgtctggt 180  
 gatgatgttg gggaaacttca ttaccattac taccagttta cccaagcac cgtggaacaa 240  
 gaaatgggtg aggctactgg tgcttgatga agtaactcgt ggatgtcttt ttaagttttc 300  
 t 301

<210> 10344  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10344

tagcttgaat cggacctcag tgtgaaaatg tttgaccatt tcaatttctc gagagctttc 60  
 gttgttcaat gtcgagcatc tcgacatgtt atgcgctcga atcggacatc cgtgtgaaaa 120  
 gttatgacca tttgagtttc tcgagagctt ccgtggttca atttcgagca tctcgtcata 180  
 ttatgtgccc gaatctgacc ttcgtgtgaa aaagtatgac catntgaatt tctcagagac 240  
 ttccgatgtt taatttcgag cgtctcaata tattgtaagc ctgaatcgga gctcagtggtg 300  
 aaaaagtatg accatt 316

<210> 10345  
 <211> 247

<212> DNA  
 <213> Glycine max  
 <400> 10345

actcgtgcga gtcctttacg acgaaactat ggcgagtttg gctccacgac acaatggggg 60  
 tgggtgtgagg gtactccacc atttcaaacg tcttcttcat gaacggaggg gggcccacct 120  
 cgtgcaaccc tatcatcggg ttggggcgaag tgcactacta ctatgaccac ttagcggagc 180  
 cgtcatccat ctgttctttc actgcgtgag ccgtcgtcac tcccgagtcc ttgctctcgc 240  
 tcaaaac 247

<210> 10346  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10346  
 agcttgtaat tgattacata agtcttggtta tcaattacca gaggagattt tcagattatt 60  
 atttccaagg gtcacaactt ttcaaagtgt ttttcatgg ccatcaaagg tatatttata 120  
 tgtgacttgg aacatgaatt tgcttagagt ttttcagaac aaaaagtctt atcctctcaa 180  
 aaagcaaaat cattttatcc tcttaagaat tccttggcca atacacttgc aattcaataa 240  
 ggaattaatt gagtgcttaa attgttcaat ctatctcttt caagagagat ttcttcttct 300  
 ctactttcta tttctaaaag gggattaaga gaccaagggg ctctcgttgt aaagaaatct 360  
 gaacacaaaa aaaggattgt ccttgtgtgg ttcagaactg caaggtagtg gaactctcaa 420  
 gcggg 425

<210> 10347  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 10347  
 tccgcttatt agtgcacagc tccttcaaga atttagcata tcttggaatt tgctttattg 60  
 catccagcag aggtatgttt acctctactt ttttaaagt ttcctagatc tctttctctg 120  
 cctcttccat tttttgttg ggaactgctc ttggagggaa tgcaagaggg atatgttgct 180  
 tctacaaatc aaaattacca gtggaagatt cacctgcacg gaaattgtta ggtaacttac 240

tcttttaaatt tttgtcatca tctttttctg gagtatagtg aagttgggca agtgcatttg 300  
 cggatgatga aggtgctact ggttgaggtc cttgacactg ctttcgcgac ctcaatgaaa 360  
 tggcactcac atttttggga ttctggacag attgagaagg cagcttgtca gaattctatg 420  
 act 423

<210> 10348  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10348

agctntaacc gtctgagatc tttgccttat cacattggag ggtacatcct ttgtggtata 60  
 agtagagggg acatctactt gggtttgact gagaacaaga gaggggtacat ctcttgtgga 120  
 tcagttctag tggaggggtac atccactagg gtttcgaaga gaacaaggga gggtagatcc 180  
 cttgtggatc tttgcttgta aaaggatttt tacaaggttg aaagaaatct caaggaccgc 240  
 angctctctt gggattggat gtaggcattg gttgttgccg aaccagtata aaaactcttg 300  
 tgtgtttgtc tccttcttcc ctactctttt aatttttgtg gtgcatttaa tttccgcttt 360  
 tactttctgg taagtttctc ttatactcct tattctctta acaactt 407

<210> 10349  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10349

tttgtaacta cctcatgcac tcctctaata actatttcat catttctggc actaaactgc 60  
 tgggagttgg aggccatctt ctcaattaaa tntctggctt caacaagagt catgtctcca 120  
 aaggctccac cactggcagc atctatcata cttctctcca tattactgag tccttcataa 180  
 aaatattgga gaagaaactg ttctgaaatc tgatgggtggg ggcaactggc acatagtctc 240  
 ttaaactctt cccagtactc atacaggctc tctacactga gttgtctaata acctgagata 300  
 tacttcttga tggctgtggt ccctgaagca nggaaaatat tttctaataa tactc 355

<210> 10350  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <400> 10350

gcattgagaa gaatattagc tctttgtgat cttgacatgg atgaagccct taatgtctca 60  
 gaactaaatg agtttcaggc ttttgttgat tttggattct tttaaatctc ctttttttta 120  
 tttaatatgc tgtgaatatt tattgttttc aagtgtggcc tattttattca aaatgtgcaa 180  
 atatatcaac aggttagatg cgtaaagcga ccattgctat cctctgaaat agcatgagtc 240  
 acaaggggttg tacagcagaa agtacctgaa ggattcaact cacatggctc tacttggtct 300  
 ggatttattt atgtccacaa tatgttcttc aaaagaaggc gtccaaagac attatgggct 360  
 gttctaagat actttggata tgataataat ttgcaactca tggat 405

<210> 10351  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 10351

agctttagg gttaaagtct cagcattgtc acatgtcat gcaacaattg ttaaccgtgg 60  
 ctataagaga catcttgcca acaaaagtca agttagccat aactcacctg tgctttttct 120  
 tcaatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttcacttgat tgtgcatcta gtcagagaaa tcaaatgttg tggctctatt tatctacggt 300  
 ggatgtaccc ggttgagcta tacatgaaga tcttaaaagg gtatacaaag aatctttatc 360  
 gtccagaagc atctattggt ga 382

<210> 10352  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 10352

tgctacccca tgcaagctcc taatatctcc cacacttttt atggtggggc attcttggat 60  
 gtccttgatt ttctcagggc ccacttggac cccatttcta ccaactacaa aacctaagaa 120

aactatatta tctacacaaa aggtacactt ctatatattt gcatagaagg tgtttttctt 180  
aaggactgaa agaactttcc tgagatgtcc taagtgatca tctaggctcc tactgtatac 240  
taaaatatca tcaaaataaa caacgacaaa tctacctatg aaatccttta agacatgatg 300  
cataagcctc ataaagggtgc ttgggtgcatt agtgagccca aaaggcatca ctagccattc 360  
atacaaacca aacttgggtct tgaaagcagt tttccactca tca 403

<210> 10353  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 10353

tcacctcatt gagaattaca attccatgaa ggatgtgtct gtctttgatg aaggctgggt 60  
gtctctcatc aataagggtca gatataacat tctcaatct atttgcta aacttagcta 120  
tcaccttgta catacaccca atcaaagaga ttgggtctgta atcatcaaag gtctgagggg 180  
gtttaacttt gggaattagg gccagaagg aagcattact gcctctaagg aagcagccat 240  
gcacatgaaa ttctgtctata aatcttctaa agtcagtttt caacactccc caaaattctt 300  
taatgaaaat gaagttgaaa ccatccgggc cagggcattt gtcccaccac aact 354

<210> 10354  
<211> 186  
<212> DNA  
<213> Glycine max

<400> 10354

tctctacaat tgcacacct ctcaatgagc tgggtgaataa gaatgaggca tttacctggg 60  
gtgaaaaaca aaagcaagcc ttgctttgc tcaaagaaaa gcttactaaa gcacctgggc 120  
tagctctatc tgacttttct ataacttttg agctagaatg tgatgcctct ggagtgggag 180  
ttggag 186

<210> 10355  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10355

agcttccggtt attcaatctc tagcgtctct atatattatt tcaccgaatc agacatccga 60  
gtgaaatggtt atgaccattc gaatttgctg agagcttccg ttgtttaatt tcgagcgtct 120  
agatgagtta tgtcaccgaa tccgacatct gtatgaagag gtatgaccat tcgaatttct 180  
cgacatcttc cgttggtcaa tttcgagcgt ctcgatatat tatgtncocg aatctgactt 240  
ctttgtgaaa agtttggacc attcgaattt ctggacagct tccgttgatc aatttcgagc 300  
gtctc 305

<210> 10356

<211> 434

<212> DNA

<213> Glycine max

<400> 10356

tacgcttgaa tgctctattc aatggagttg acaagaatat cttcagacta atcaacacat 60  
gtacagtggc caaggatgct tgggagatcc tgaaaaccac acatgaagga acctccaaag 120  
tgaagatgct cagattgcaa ctcttggtcca caaaattcga aaatctgaag atgaaggagg 180  
aagaatgtat tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcactgcct 240  
tgggagagag gatgacagat gaaaagctgg tgagaaagat cctcagatcc ttgcctaaga 300  
gatttgacat gaaagtcact gcaatagagg aggcccaaga catttgcaac atgagagtag 360  
atgagctcat tggttccctt caaacctttg agctatgact ctcggatagg gctgaaaaga 420  
gaagcagaac ttgg 434

<210> 10357

<211> 343

<212> DNA

<213> Glycine max

<400> 10357

cctattaaca caccggcca tgaatcacat atctgaacct gtcagcagtc tctgtggttt 60  
atgcttcttt ggcgaccacc acagatacct ttgcctcttt gtgcggcgaa ttgaagcaat 120  
cgaacagctc gaagcttatg ctgccaacat ctacaataga cctcctcaac cgagcatgga 180  
aatcagtcac aacagaacag aacagtgatg acctctccag caacaggtac aatctcgggt 240

ggaggaatca tcccgaactt agatgggtcga atccggtgcc acagcaacaa caacaacaac 300  
atccttattt tcacaatact aatggcccaa gcataccata cgt 343

<210> 10358  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 10358

agcttgcgaa ccataccact atccacgtat atgctagctc catcatatcc ttggcctcta 60  
actttttgaa tgataagatt atcatgagat agtattgaac aaactccttg cttaagagta 120  
gatgatgtac aatctatcac atgtgagata tctaaaaaat gttctaacat atcagcactt 180  
atcaacaaat ctaatattag gagtaatttg ttttcttcta gattcatcat gagcttcacc 240  
tacaattcac cagaattttg cattatcaat ctctttttga atttcatttt gcaacttcct 300  
agcaaagacg tgtagaattt ctttttgaat aatgggtgaa gtgtatcttg cattctaagg 360  
gacattttcc aagacaactt catctatttg cttattataa g 401

<210> 10359  
<211> 311  
<212> DNA  
<213> Glycine max

<400> 10359

actccgaggg ccgaatctgg cgaataatat agcgagacgc tcgacagtga acaactaaag 60  
ctctcgagaa attcaaattg tcatgactct tcaactcaggt atccgattca cgcgcataat 120  
ataactaagac actcgaaatt gaacaacaga agctctcgag aaattcatat tgtgctgact 180  
cttcaactcag atgtccgac cgcgcgcata atatatcggg acgctcgaca ttgaacaatg 240  
gaagctctca agacactgaa atgggtcataa cgtttcacac agatgtctga ttcctggaaa 300  
taatatatcg a 311

<210> 10360  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 10360

tcacccgtgg gtcaagaatc ttagcaattg aaagaatgac attatagtca ctccaatact 60  
 tgccaaactt ttccatcatc aacactgcc aattttgcaa tactggatca tcacacttca 120  
 gtgtttcccg caacaacat tcaattttcc atacttgcac gaagtattca ttggaagttg 180  
 gataagatgt acctaaaaaa aattcaaata agataattaa actataaata taaatctgaa 240  
 actattttatt ataattatga aatttgaaaa aatataacctg aaatcaaatt agtcatatta 300  
 taaaatggct tcaaaaattc acacaattt 329

<210> 10361  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 10361

taaacattca atttcgagcc tctcgatata ttacgggact caatcaaaca tccgaaaaaa 60  
 acgttattgt cgtttgaatt cgcacagagg ttcaacattc aatttcgagc gtctcgatat 120  
 attacgggac tcaatcagac atccgagtaa aacgttattg tcgtttgaat tggctcagag 180  
 gttcaacatt caatttcgag cgtctcgata taatacggga ctcaatcaga catccgagta 240  
 aaaagtcatt gtcgtttgaa taggctctga ggttcaacat tcaatttcga gcgtctcgat 300  
 atattacggg actcaa 316

<210> 10362  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10362

agcttccatc aggatgtctt attgagtcac gtaatatatc tagacgctcg aaattgaatg 60  
 ttgaacctct gagcatattc aaacgacaat aactgtttac tcggatgtct gattgagtcc 120  
 cgtaatatat cgagacgctc taaattgaat gttgaacctc ttagccaatt caaacgacaa 180  
 taactttnta atcgatgtc tgattgagtc ccgtaaatat atcgagaccc tctaaattga 240  
 atgttgaagc tctgagccaa ttcaaacgac aataactttt tactcggatg tctgattgag 300  
 tcccgtata taacgagacg ctcgaaattg atatgtgtaa ctctgagcca attcaaacga 360  
 caataactat ttacttcgat gtctgagtga gtcccgccat atatcg 406



<210> 10363  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10363

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 ttccagtc aa gtgagtgttt ctctgcatca aacaaatcan atgtgatctt ccaatcatct 120  
 attcccattt ctagattacc tttccccata tccaccacac aattggcagt tagcatgaag 180  
 ggacgaccca caatcagagg gatttcagca tcctcttcaa tgtccatgat cacaaagtct 240  
 gtagggaaaag tgaactgtcg caccttgacc aanacatctt caaccacgcc ataaggtctt 300  
 gtaatggaat gatctgcca caacaatgtc attcttggtg gcataatttc cagctctcca 360  
 attcttctgc acatggagag cgacatcaaa ttaatgctag ctcccacata atgaaagctt 420  
 tccaactgac ac 432

<210> 10364  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10364

tcctttacaa caaagagaag tgatgtaagc tccattggag cttgtaggcc taggatcttc 60  
 ttcattaatg gattccttta cttcttgga gatgaatggc agcggaatgg tgaaaggaag 120  
 agagagagga ggcgcactt caaggagaag atgagtctag aagaagctca ccaccataag 180  
 aggccatgga taagagcttg gaggaagaag gagatgaatg aggggagagg gagagaagag 240  
 cacgaaattt tgtgctctaa atgagctttc aaatctgaat tttaatatc taatgatcaa 300  
 agttgaaaaa aatgcacaca catgacctct at 332

<210> 10365  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10365

agctggcctt gaatcagaaa ntgtaccag tcgcaagagt ctgtgggttta tgctcctctg 60  
ctgaccacca tacagacctc tgcccttcca tgcaacaacc tggagcaatt gagcagcctg 120  
aagcttatgc tgcatacatt tacaatagac ctctcaacc tcagcagcaa aatcaaccac 180  
agcacaacaa ttatgacctc tctagcaaca gatacaaccc tggatggagg aatcaccta 240  
atctcagatg gtctagccct caacaacaac aacagctact gtgccaagca gaccgtacat 300  
ttcttcaccg atccaacaat agcaa 325

<210> 10366  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 10366

tatatgtttt ttagttgect tgtaccatgc tcacctaatc caaaggtcgg tattgatgtt 60  
tatctagagc ctttgattga tgatttgagg aagttatgga gtcgtgtttt gacacatgat 120  
gtgtcaagga agcaaaatth gatgaggact attaatagact tccctactta tggcatgttg 180  
tctggttgtg gaactcatga taaatttttt tgtccgcatt gcatggagca taagaagttg 240  
tttacattac aatatgagag gaaaagttgt tcatttgact cgcacgtag gttcttacct 300  
agcattcatt catttaggac taaca 325

<210> 10367  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 10367

tatgctgcaa acatttataa tagacctcct cagcagcaaa accaacaaca acagaataat 60  
tatgaccttt cgagcaatag atacaatcta gggtggagga atcatccaaa tatgagatgg 120  
acaagtcctt cacaacaaca atagtttgtc cctcctttcc agaattgttc tggccaagc 180  
aagccgtatg ttctcctcc aatacagcag cagcaacaac agtagtcaca acaaagacaa 240  
caagcaacta aggctcctcc tcaaaattcc ttagaagagt tagtgaggca aatgaccatc 300  
cagaatatgc aatttcagca agagacaaga 330

<210> 10368  
 <211> 335  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10368  
  
 agccttttct cattctctgg agggagtggc aaaagaatgg ctatactacc tcgctcccat 60  
 gtccattntc agttgggatg accttaagag ggtgttcttg gagaaattat tccctgcatc 120  
 taggaccact gccatcagaa aagacatttc aggcacacg caacttattg gagaaagctt 180  
 gtatgagtac tgtgaaagat tcaagaaatt gtgtgcaagc tgtcttcacc accagatttc 240  
 tgagcaactc attcttcaat atttctatga gggacttaac aacatggaga ggagtatgat 300  
 tgatgctgct agtgggtggag ctctcggtga tatga 335

<210> 10369  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10369  
  
 taataatcta tggcttgaaa caagcctccc gccaatggta tctaaagttt catgatgtca 60  
 tcacttcatt tgactttgaa gagaacatca tggatcaatg tatataccaa aaggctcagt 120  
 agagtaagat ttgctttctg tgttaaactg ggatgacatt ttgcttgcaa ctaatgataa 180  
 gggtttgcta tatgaggtga aacaatttct ctggaagaac tttgatatga aggatatggg 240  
 agaggcatct catgtaattg gcattaagat ccatagggca agatctcgag gcattttggg 300  
 tttgtctcaa gagacttata ttaacaaagt tttagagaga 340

<210> 10370  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10370  
  
 agctnntaga tgccttanag ttttaaggct gaagttgaga aacaatgtgg aaaacaaatt 60  
 aagatcgtga gatcagatag aggtggggag tactatggta gatacacaga ggatggacaa 120  
 gcaccacgtt catttgcaaa ttntnttcaa gaacatggga ttgttgccca atacactatg 180

tctgggttctc cggatcagaa tgggtgtggca gaacgaagaa atcaaacctt attagacgtg 240  
 gtgagaagca tgaggagtaa tgtaaagctt tctcaatttt tgtggattga tgctcttaag 300  
 acggctgcgt atatattaaa ccgagtt 327

<210> 10371  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 10371

tgtaggggta aagtctcacg attgtcacgt gctcatgcaa caattgttag ccgtggctat 60  
 acgagacatc tttccaaaca aagtcagggt agccataact cgcctgtgct ttttcttcca 120  
 tgctatatgt agctaagtca ttgatcctgt gaagtttgat gagctggaaa atgaggccgc 180  
 aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
 cttgattgtg catctagtca gagaaatcaa atgttggtgt ccagttttatc tacgggtggat 300  
 gtaccgggtt gagcgataca tgaagatctt aaa 333

<210> 10372  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 10372

ttgagaaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgaaatat 60  
 atcgagacgc tcgaaattga ataccgaagc gctaagcaaa ttcaaacgac aaaaactttt 120  
 tactcggatg tctgattgag tcccgtaata tatcgaaaag ctcgaaatgtg aatgtagaag 180  
 ctctgagcaa attcaaaca caataacttt ttactcggat gtctgattga gtcccgtaat 240  
 atatcgagat gctcgaaatg gaataccgaa gctcggagca aattcaaaca ataataactt 300  
 ttactcggga tgtccgattg agtcccgtaa tatatc 336

<210> 10373  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 10373

tcaacctaga ggagacgaac cattccaagt gttggagaag atcaacgaca atgcctacaa 60  
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120  
ttttgatgca gatggaggag ccttggattt gaggacaaat ccttttcaag gagggagtga 180  
tgaggacata accaagggca aggaccatga agcacttgaa ggtcccatga ccagaggcag 240  
acttaaacaa gccaacaca tcatagagac aaggttggtc atttgtatag ctgtcattga 300  
tgatgattga aagcccaagt ggagaaagat g 331

<210> 10374  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 10374

tctcagatcc agtcatggaa agacttggca actgccttca ttaggcaata ccaatacaac 60  
acggatatgg ctctgatcg aaaccaactt cagagcatga ccaagcggga acatgagtcc 120  
attaaagaat atgctcaaag gtggagagac cttagcggccc aagtcgtccc gtcgatgact 180  
gaaagggaaa tgatcacgac tatggtagat acgttgccta cgttctacta tgagaagctg 240  
ataggatata tgccggctaa ctttgcagac ctctgtcttcg ccggagaaaag aatcgagtcc 300  
ggactgagaa aaggcaagtt tgaatatgcc t 331

<210> 10375  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10375

agcttcttat ccaaggagat tctnggtggt gaagctcctt ctctcttggc ttattcccta 60  
gtggatggtg tctcccctct ccacttctcc tttaccttcc gctgcatctc catggtgtaa 120  
aatcaccatt gaaggacctc attgaagctc anagatccag cctncataga agctccacaa 180  
gcaagcttcc atcattaagg tttcattatt tttgggcctt gtatttaggg ttcataatat 240  
aggtaaggta tcctagaaat gtagaatttn taagcccttg tattntatgg cacctagact 300  
agcttttgta ttaggggtag tttcgaattt cacatgcatt aagtgaata 349

<210> 10376  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 10376

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tttcctttgg ttgctctgat aagctttcca aacgttagag agaaggagaa gagattgaag 60
ccttcattcc actgtctgca tgaaatgagt atttctccct ccctagacat tattttccac 120
atctcaacgg ttaaaatgtg cgggacttaa tttcaaacct ggtgtccaaa tttcacaatg 180
atccaacggg taatatgtcc aggattgtag ttttattggg acaagttttg ggtctccgct 240
ggaaatggaa aagctatgac gtgaaggaa attctttcaa atcctagtgc tcaaattcca 300
accctgagaa tgttcagaaa tgagttccaa 330
```

<210> 10377  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 10377

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ttgagacaat tcaaacgaca acaacttttt actcggatat ctgattgatt cccgttatat 60
aacgagacgc tcgaaattga atgtttaagc tttgatccaa ttcaaatgac aataaatttt 120
ttctcagatg tctgattgag tccaataata taacgagacg ctcgaaattg aatgttgaag 180
ctctaagcca attcaaacga caataacttt ttactatgat gtctgattgc gtaccgtaac 240
atatcgagac gctctaaatt gaatgttgaa gctctgagac aattgaaacg acaacaactt 300
tttac 305
```

<210> 10378  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10378

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agcttcaaca ttcaatgtca agcgtctcga tatattatgg gactcaatca cacatccgag 60
taaaaagtta ttgtcgtttg aattggctcg gagcttcaac attctaattc gagggctctcg 120
atatattact aggactcaat ccgacatccg agataaaaat tattgtcggt cgaattggct 180
```

cagaggttca acattcaatt ntgagcgtct cgatatgtta cgggactcta tcaacatccg 240  
 agtaaaaagc tattgtcggtt ttgaattgct cagagactca acattcaatt tctaggggtct 300  
 cgatatatta cgggactcaa tcatacatcc gcagtaaaaag ttatcggtccg ttgaatatgc 360  
 tcagaagatc aacattctat ttcgagcgt 389

<210> 10379  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 10379

tcttgaagtt ggaatgatat atgccatttc cgatagttca tgggtaagcc ctgtgcaagt 60  
 agtcctaaa aagggtggaa taacactgat aaagaatgac aagaatgagc tgattcecac 120  
 aaggaccatg accgggttga gaatgtgtat caattatcgc cttctcaaca aggcaacaag 180  
 gaaacaccat tttcctctcc cttcataga tcaaatactt gagaggttag ccggccaagc 240  
 cttctatttc tttcttgata gatactcaag gtataattaa attcttggtta atccgaagga 300  
 tcaagagaaa acaaccttca attgcccatt tggagtct 338

<210> 10380  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 10380

tgtgttaaga ggaagagtga tgtgattgat gtattcaaga aattcaaagt ttcagtggag 60  
 aaacagtgtg gaaaaaattt agagatatta agaacggatg gtgggggtga atatgtatct 120  
 gttgagtttg ctgaattttg tgagaaagaa ggcacacac atgaagtaac acctccatac 180  
 actcctcaac ataatggagt agttgagagg aagaatagaa ctttggtgaa catggtgagg 240  
 agcatgttaa agagcaagaa actacaaaa tatttgtggg gagaagctgt gaacattgct 300  
 gcatacatct tgagcagaag cccaactagg aaa 333

<210> 10381  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 10381

tctaaacttt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
tcttaagaag ggggaggttg aattaagata ttacaaacta tttccccaat taaaattcta 120  
tcaagttata aattccctta ataataaact tcttaaatat tgactcaaat agaacaattt 180  
gaatatgaat ataaaacaat aataaataaa ggagtttaag ggaagagaaa gtgcaaactc 240  
agatttatac tgggtcggcc acacccttgt gcctacgtcc agtccccaag caaccgctt 300  
aagagttcca ccatcttgta aattcctttt aca 333

<210> 10382

<211> 326

<212> DNA

<213> Glycine max

<400> 10382

tctagaatta tggcctcatc aaactacttg tttcccgagg gaaattctat aaatagacct 60  
cccatcttta atggagtggg ttaccattat tggaaaaccc gcatgcaaat ttttatagag 120  
gcaatagatt taaatatattg ggaagccata gaacaaggac cttatgttcc ctctataatg 180  
gccggaagtg caacaatagg aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
gtacaatata atttaaaggc caaaaatatt attacatctg ccctaggaat agatgaatac 300  
tttaaggttt caaattgtaa aagtgc 326

<210> 10383

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10383

agcttctcga ttattatgca ctttaatctg acttccgttt ganaagttat gacaacttga 60  
atttctggag agcttccgtt gtgcaatttc gagcgtcttg atatattatg cgctgaatt 120  
ggacttctgt gtcataagtt atgaccatnt caatttctcg agagcttccg ttgttcaatt 180  
tcaagcttct cgatatatta tgcacctgaa ttggacttcc gtgtgacaag ttatgaccat 240  
tctaatttct tgagagcatt cgggtgttcaa tttcgagcgt ctcgatatat tatgcatctg 300



aatcggactt gcgtgtgata agtatgacca ttg

334

<210> 10384

<211> 327

<212> DNA

<213> Glycine max

<400> 10384

tcaagagatc gtcccccttga caacattatt ggtgatatct caaaaggggt aacaactaga 60

cattctctta aagattttatg caataatatg acttttgtgt ctatgattga acctaaaaat 120

ttagatgaag ccataataga tgatcattgg atagttgcta tgcaagaaga actaaatcag 180

tttgagagaa acaatgtgcg ggaactagta gagaaacctg aaaactaccc catcatagga 240

acaaaatggg tatttaggaa taagttagat gaacatggca taatcattag gaacaaggca 300

agattacttg caaaaggata taatcaa 327

<210> 10385

<211> 339

<212> DNA

<213> Glycine max

<400> 10385

ttaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa ggaaagctgg 60

agttgctgca catgatgtcc aacgttatgt caaggaataa gatcgggctg cactatgcac 120

aaggcaagat aaaatgtcaa atgaagaatt gaagctgcag gatccacgat gtcggataca 180

atgtccagga catcctgccc gagaatactg gagttgctgt acaatgcaag ataaaagtca 240

agtagtgaag ctgcaggatc cacgatgtcg gatacgatgt cctgacatct ggcccataa 300

tactggacat ataattctgt tatatcttta acagattat 339

<210> 10386

<211> 328

<212> DNA

<213> Glycine max

<400> 10386

tccagaaatc atcctcttaa cgacattatt ggtgatatct ctaaagggat aacaactaga 60

cactctctca aagattttatg caataacatg gaatttgttt ctatgataga acctaaaaac 120

ttaaaagaag ccataataga tgatcaatgg atagttgcta tgcaagaaga gttaaatacaa 180  
 tttgagagaa ataatgtttg ggaactagtt gagaaatcac ataactaccc cattatagga 240  
 agaaaatgag tattttaggaa taagtttagat gaacatggca tagtcattag aaataaggct 300  
 aggttagttg caaaaggata taatcaag 328

<210> 10387  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10387

agcttctntg agaaaacttc cttgagaagc tagagcttat ctacacacac ccctctcata 60  
 actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc ttgagcttag 120  
 ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180  
 tacacacccc ctataatagc taagctcacc cccatgacaa ataacatgaa aatacaaaaa 240  
 aagtccttac tacaagact actcaaaatg ccncaaaata caaggctaaa accctatact 300  
 actagaatgg ccataataga aggccagac gaaggaaata cctattctaa tatctacana 360  
 gataagcggg ctcatactta gcccatgggc ttgaaatcta ccctaattgct catgagaacc 420  
 ctanggcctt cccttgatc gctagccaat ctac 454

<210> 10388  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
 <400> 10388

ttctgcaggg aagctaagtg tgaagtatgc aatcttgcac aggattggca ctgccaaactg 60  
 ggtaccacc aatcatactt ccaactgttg cacagggttg ggtaaatttc tgtatgctgt 120  
 tggaaccaag tccaaattta attttggaat ctatatattt gatcaaacta ttaagcattc 180  
 agaatctttt gctgtcaaact taccattgac ctttccaact gtattgtgtg gcattatgtt 240  
 gagtcaacat cccaatattt taaacaacat tgactctgtg aagaagagag aatctcctct 300  
 atccctgcat taaaactgt ttgaggggac ac 332

<210> 10389  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10389

cacctgcggc tgcagcttaa gaaccaaaaa taaaaatatt atcttattag ggagataaca 60  
 cactattaaa aatctattag aaaagaaagt acatctaaat atttattaaa gagtaaaata 120  
 tattttaaacc tttaaaatat tcttactaaa aagaacactc ggctagtaat actcgagtaa 180  
 caaagaaagt tatgatatgg gtatttagta attataacta tcttgtaaac attacttaaa 240  
 tnttttaata atttatatac aggactttta ttgttggtgt caaaataata acatttattt 300  
 tgtaaaacat attcatatgt ataacatatt atatgcttgt tgaatatagg atatacattt 360  
 cttaaaaaaa tatgtataaa caatgataat atactccaat tgaaaatact tgtatatata 420  
 tataactcct tagaatacgt ttagtcatct gcatcgcaat agagaagaaa tcataatatg 480  
 atttacttag ta 492

<210> 10390  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <400> 10390

agcttctata gaaagttcgt tgctaatact tctacaattg catcaccttt caatgagctg 60  
 gtgaagaaga atgtggcctc tacctcgggt gaaaaacaag agcaagcctc tgctttgctc 120  
 atagaagagc ttactaatgc acctgttcta gctcttctc acttttctaa aacttttgag 180  
 ctagaatgtg atgcctctgg agtgggagtt ggagttgtat tgttacaatg tgggcaccct 240  
 attgcttatt ttagtgaaag agaattcata gtgccactct caactactcc acctatgata 300  
 aagagcttta tgtcataata agagccctcc aaacttggga acattacctc gtttccaaag 360  
 aaattgtcat tcatagtgat catcaatcac ttacgtacat t 401

<210> 10391  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 10391

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agcttattaa gaggttcct ccagaagctt cctcgtggct tctttgagaa gctntctcaa 60
gaggcttctt tgagaagcta gatccttatt tatccacacc cctctattaa ctaaattaac 120
ttccttaaaa ataattacgg atgataataa cgcaacanat attcaaacat caaacataat 180
tactaatagt atatagatat atatatatca ggggtgttaca actctcccac ccttttagaa 240
atttcgtcct cgaagattac cttactcaaa caaggatggg tgagcttctc acatctgact 300
ntctaattcc catgtggcat cttctcctga tgcacctncc cagatcacct tgaccaacag 360
aatctc 366
```

<210> 10392  
<211> 319  
<212> DNA  
<213> Glycine max

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<400> 10392
tgatgaatca tgtatcgtag ttaggaacaa ggctagattg attgctaaag gatacaacca 60
agaggaaggc attgactatg atgagaccta tgcctttggg gcaagggttg aagctattag 120
gctattgctt gcttttgggt gtattatgaa ttccagggtta tatcaaattg atgtgaaaag 180
tgcttttctc aatggataca ttgaagaaga gatatatata gaccagcctc caagttttgt 240
agactttgaa catcctaata atgtttacaa gttgaaaaag aactgtgtg gtttaaaaaa 300
agcacctaga ttttgggtat 319
```

<210> 10393  
<211> 326  
<212> DNA  
<213> Glycine max

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<400> 10393
tgtgaaacct tgcaagctcc aaacacccca ttgaaaatc tttctggatt aaacttgtga 60
gcatcaggcc ccagagattg agggctcttg tgcagcactg agattggaat ctgaatattc 120
attccttttg gaattaggat gccttttaaa ttaacacctt ggagagctgt tctaacaaca 180
aaggctgctg gcgaataaag cctcaaagtc tcttgaatca ccatgggtcaa ctgcaagtgt 240
aacattttta tatatggcct tcacagatca gtaagaatgc tcatgaaact tggaaatgat 300
```

caactataat tacaataaaa tttgag 326

<210> 10394

<211> 497

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10394

agcttcaaga ataatggcct caacatactt cttattccca gaaggaaatt caataaatag 60

gcaaagtaat taagatacat tgtataatga aacgtataat aaagaataat ggcttcaaca 120

aacttctaata gctgatgggt ttctgtttgg ttntccaaca acatttggat ccatgggtttc 180

tcaatttaaa gcatttntag aagacactat aagcctggtg tggcttacac aggcactagc 240

aggaaaacct gtaggggttct tctctagcac tagttctcaa ggaggtggac aagaagagac 300

cccatgagtt atattaatta ttactgaatt cttcaatatt catgattaag gtttccatca 360

attaatgggt attttgtata tatccactca acatgggaga agtcagagca nactattagt 420

cactactttg tattattatt actggtacga agtatctacc aaccaatgag tcagcttgtc 480

acgatgggat gatacat 497

<210> 10395

<211> 311

<212> DNA

<213> Glycine max

<400> 10395

caaatacctt tcagaggcac atcaacttca aagtgaagag gaacttgggt aacacacaat 60

tcactagtaa cagaagacaa gacacgatat tcagcttcag tggatgattt tgaaacagtg 120

ggttgtttct tagaacgcca agaaagaatg atatttccca taaagacaca aaagccagaa 180

gtggatcttc tggatatcaac acagctggcc caatcagcat ccgcaaaggc agggaggctg 240

agagagttct gagcaaggaa aaacaaacct tgtctatgag cagatttgat atactacaga 300

agatgatgaa c 311

<210> 10396

<211> 261

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10396

gaacatcaca tatcgagacg ctcaaaactg aacaacgaaa gctctcaaga aacagaaatg 60  
gtcataacct ttcaactcga tgtccgaatc aggcacataa tatatcgaga cgctcgagaa 120  
tgaacaacgg aagctctcga gaaattcaaa tgaggataac atttcactcg gatgttcgat 180  
tcatgcgcat catatatcga gacgctcgaa attaaacaat tgaagctctc gagaaaatta 240  
aantgtcata actctttact c 261

<210> 10397

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10397

tgcaagctca agaatatggc ctcatcaaac tacttgnttc tcgagggtat attctataaa 60  
tagacctcct atctttaatg gagtgggttg ccaactactgg aaaacccgca tgcaaatctt 120  
tatagaggca atagatntaa atatttgga agccatagaa caaggacctt atgttccctc 180  
tataatggcc ggaagtgcaa caatagaaaa acctaaagca gattggactg aggaagaaaag 240  
aagaatagta caatataatt tacaggccaa aaatattatt acatctgccc tatgaataga 300  
tgaatactct aggggtttcaa atggtaaaaag tgtaaggat atgtgggata cactacaagt 360  
aacacatgaa ggcacaacag atgttaaaaag atctaggata cacactttaa ctcgtaaaata 420  
tgaactgggtt aggatgaatg taaatgaaaa tatacangac at 462

<210> 10398

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10398

ctatggagaa ctnttcttaa ctgnaatttt tacacacgtt cacctatagt gggaattgat 60  
gaacaccttg ataattcaca gcttgcttca cctcaggtcg caagccattt agaaacatca 120  
cacattntga gctttcacca tcccttcctt ggtaatgagg aanatacctc actagctctt 180

canacttggc tgcgtattca gctacagtcg tggtcccttg cttgagttca aggaattcca 240  
tctccttctt gttcctaaca tcttcagggg agtattttctc cagaaatacc ctcttgaagg 300  
tttcccaagt catagcttga ccttcagcct cccagcatng gtgagtgttc tcccaccaat 360  
actcagtttc ttcta 375

<210> 10399  
<211> 398  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10399

ttcttccttc accagtaacc cccaatccaa ggtaaataaa ttgagtttaa tttctatcca 60  
cttttagtat aattattatc ttacactctc catttatact ggtaatcaat cagaaatcat 120  
atatgaaaac aactcttaag taactttata taaaagttaa caaacttatt atatgtacca 180  
tacataaaact gcttactcat aaattactat ttttnttagg aaatgtttta gctttgttaa 240  
ttatctataa gctatgtgta tctttcccag cattattctg ctatactatt agaatgttca 300  
atatgttaac caaactagtg gttgttttgt taattattgg acgatacttg aacagaaggg 360  
aaaaacatga tacatatgaa gaacaatggt ggggttgaa 398

<210> 10400  
<211> 382  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10400

cagcagaaca attatgacct ttccagcaac agatacaacc ctggatggag gaatcaccct 60  
aaccttagat ggtccagccc tcagcaacaa caatagcagc ctgcttcttc ctttcaaaat 120  
gctgttggcc caagcagacc atacattcct tcaccaatcc aacaacagca acaaccccag 180  
aaacagccaa cagttgaggg ccctccacaa ccttccctcg aagaacttgt gaggc aaaatg 240  
actatgcaga acatgcagtn tcagcaagag accagagcct tcattcagag cttaaccaat 300  
cagatgggac aattagctac ccaattgaat caacaacagt cccagaattc tgacaagctg 360  
gcttctcaag ctgtccaaaa tc 382

<210> 10401  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10401

agtttcataa tgtggtctcc aaatatggat tggaggaaaa tgttgtaagc caatgcatgt 60  
 atcttaaagt gtgtgggagt aagtttattt tcttagtcct atatgtatat gatattttac 120  
 ttgcaagtag tgacttgggt cttttgcatg ataccacaaa tttcctctca caaaactttg 180  
 atatgaagga tacgggtgaa gccttctatg tcattagaat agaaattcat agagatagat 240  
 ctctaagaac atcgagatta tctcanaagg cttacataga anaagttttg aaaagattta 300  
 atatgcagaa 310

<210> 10402  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 10402

aacataaatt ataggccatc ataatagatg gatacaagga tgcaaaatct aaagtagcaa 60  
 ttgggtttttc ataaaatcca gcccttgccct ccaatacctg caagttgtaa agttcaaaat 120  
 gcatgcatca aaaggcaaca cagcttgaca agtgaaacgt ccaaaaggca aatacaggaa 180  
 aaggtgtaga acattaactc caataatatt atgtagatct ccatacataa agatacttga 240  
 aatttgagaa ttctttcaat ttttcattta ttaactgaag aacaagaggg catttaagat 300  
 tgagcttgat tcaggcctaa catgctgtta gagattccca aacatcaata gttactaatc 360  
 agagtaaa 368

<210> 10403  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10403

cttcttcata agggtnctc ttgattctt acagatcaat ggcagtggaa tggagaagga 60



agaaagatga ttggagatgc cacttcaagg aaaagatgag tcaagaacaa gccaccacc 120  
 ataggaagcc atggataata agttgaagat acgacaagat gattggaggg agagggagag 180  
 aatgagcacg acattttgtg cctcaaatga ggtctgaact ttgaagtga atttctcaaat 240  
 gatcaaagtt gaaaaaatgc acacacatgg cctctattta tagcataagt gtcacacaac 300  
 aatagagggg atattgaatt tctattcaaa tatcactcga atttgnaatc gaattcgtgg 360  
 agccaaattg attagtgaat tctagctact ggtcaaccca ctaatccaag atcaagttca 420  
 agatgctcca ctaagtgtgc ttacgtgtca tg 452

<210> 10404  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10404

gccaaagcct ctgtgattga ttcaagactt caagatcaag catcaagaat ccaatccaag 60  
 attcaagatt aaagagaaga aatcaagaag caacaagtca agacttcata tgggataagt 120  
 attaaaagat tttttcaaaa aaacaaatag cagagttntg ttttacaaaa gaattttctc 180  
 anactttcaa agttaccaga gtgattactc tctggtaatc gattaccagt tggctgtaat 240  
 caattaccag tgaccaattt ggttttcaaa atgttttcaa atggtttgca atgttccaaa 300  
 atgattntca aatagtgtaa tctgattacac tatattagta attgattaca agtgaatctg 360  
 aacgttggaa ttcanatcca attgtgaaga gtcacaactt ttcataanat gcattgtgta 420  
 atcgattaca cctttgtggg aatcaattat cagtaaacag ttttgaagaa aaagtaagag 480  
 ttatactctt acatgggtctc aaatgcatac ttttcat 517

<210> 10405  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10405

tgatgcagct gagttttgtt ctacctcatg cactcctcat tgactatggc atcattttctg 60  
 gcgctaaact gctgagagtt ggaagccatc ttctcaatta aattttctggc ttcagcaaga 120

gtcatgtctc caagggctcc accactggca gcatctatca tacttttctc catattactg 180  
 agtccttcat aaaaatattg gagaagaagc tgttttgaaa tctgatggg ggggcaactg 240  
 gcacatagtt tottaaactc ctcccagtac tcatacaggc tctctccact gagttgtcta 300  
 atacctgaga tatecttcct gatggctgtg gtcctggaag cagggaaata tttttctaata 360  
 aatactctct taaggctcct ccagctcgtg atggaccttg gagcaaggaa tacagccagt 420  
 cctttgccac tccctcttat gaatgangaa aagccttcag aaatatgtga tcctcttgga 480

<210> 10406  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10406

tcaccaagtt cttgtaagct tcccaaccaa tcaggatattc ttccactcaa cccgttggtta 60  
 ttcacaaaca tgtgttccat nttcttgag tatgagagtt gaggtggcac ttctcctggt 120  
 aaattgttga atgataaatc aagacagttg agaacagtaa ggtggccaaa ttcagaagga 180  
 atgctttctg tgagataatt ctctccaagt ctgagacggc tgangtttct agaattgggt 240  
 agagtggaag ggatgggacc tgagaagctg ttgttagtca cggccataaa ggcatggaat 300  
 ttgaccagtg agaggaaaga actttcctga acttgtggtg aaagtatgat ttgagctttt 360

<210> 10407  
 <211> 511  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10407

tgcaagcttc agtttgccn ctgctctaa tcacatgccg gttctgtgga gatatgggtc 60  
 aagctgggag gtctgccatg gacgtccgtg acagattaag aggattgtct gagcgttctg 120  
 tgatgttgaa ggacatggat attcaccaga tttctgttca tcaaagtggc tagttgatag 180  
 cagtgtagca gcaacagcaa catcagagaa aacagggaaa gtaaacaaca atgcaggagt 240  
 acaattagca aaagcaaaga ggagagttac cagggcagca tatctcagag attatgcctg 300  
 aaatgcaatg caaatgatga ggagatgagc tggcagtgca ggatttgcta gcttctagtt 360

gtccctgct aggatgcac cataaccaat tctgttatgc aaatattcct agaagatatg 420  
gataattcct ttagcagtag gcattatata tgcataatgta aataactagc anaatcaata 480  
agaaccaatt acactcctct cattccttcc c 511

<210> 10408  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 10408

atattctaaa ttgtaattag agtgacttta aaatttttaa tattatgaga aacgatagat 60  
tgggtaaata gtcacttttg tccctgaaag tgtaactcgc tgacaatttg gtccctgaat 120  
cgagataaat tgcaaaataa tccctgaaac gtgcactctgt tagtcactac cgtgaatgga 180  
gtagttacct ccgtcattta tctctgatgt ggttcgttta atgccacaca cacatgat 238

<210> 10409  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 10409

ctgatgaaga tgaatttgtg gctacttcat gcactcctct aatgacaata gcatcacttc 60  
tggcactaaa ttgctgggag tttgaagtca tcttctcaat taaatttatg gcttcagcag 120  
gggtcatgtc tccaagggct ccaccactgg cagcatctat catacttctc tccatgttac 180  
tgagtccttc ataaaaatat tggaggagaa gctgctcaga aatctagtgg tgaggacaac 240  
tggcacatag tttcttaaata ctctcccagt attcatataa gctctctcca ctgagttgcc 300  
taattcctga aatatctttt ctg 323

<210> 10410  
<211> 461  
<212> DNA  
<213> Glycine max

<400> 10410

aagaaagagt tatatggtaa gccttggtac ttctatcata aacttatgca taaaaacaag 60  
gaatacccggt aggaggcctc tgacaacgac aacgaagggt ggtggccagc ttcttctga 120

gtgggaatat cctatacaag aggaaccatg acatgggtact gcttcgatgt gtggatgccca 180  
gagaggctaa gcaaattgctg gtagagggtg atgaaggatc ctttagcacg catgccaatg 240  
gacatgcctt ggcccgaaaa attctgagag tgggggtatta ctggctcact atggagagcg 300  
attgttgcac ccatgtgagg aaatgccata agttccaggc cttcgctgat aatgttaatg 360  
ctccacccat accttttaac gtcttgtgta gcaccttggc cattctctat gtgtggaata 420  
gacgtgatca gagccattga gcctaaagat tcaaacggac a 461

<210> 10411

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10411

aaggaaattn gaatttctat tcagatttca ctogaatttg aaattgaatt tgtggagcca 60  
aaatttcatt aattatcatt agtgaatttt agctatgggt tagccacta atccaagatc 120  
aagactaaga ttctccacta agtgtgctta ggtgtcatga ctcatgaggc atgtaaaaca 180  
tgaaagacat gcacaaagta tgactatatg atgtggcaat gaggtgtagc aagcaaatgc 240  
tcacctcccc ctctaaaatt taattggatt gggcttctcc caattcaatt aaatttat 300  
cccaacacac acatgtacaa tgttcctatt gaaaaataaa ggtttaattg cacttcttac 360  
tccctaactt t 371

<210> 10412

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10412

aagggttagg acaccctat gttgggttaga gcccganata nttctcacct tatgacccaaa 60  
agtgggtacaa cataccactg agaaagttaa gttaattgaa gaaaggatga gaactgctca 120  
gagtaggcag aaaagttatc atgataagag gaggaagat ctggaattcg aggttgggtga 180  
tcatgtattc ttgagagtca ctccgtggac tggggctggt cgagcattga aatccccgaaa 240  
actaacaccg cgctntattg gtccttttca aattottaag agagttggcc ctctggcata 300

ccaaattgca ttacccccgt ctctttctaa tcttcacaat gtctttcatg tgtctcaagt 360  
 ccgtaagtat atccgtgac catcccatgt gattgaattg gatgatgtac aagtgaacga 420  
 gaatctgaca tatgaaacat tac 443

<210> 10413  
 <211> 125  
 <212> DNA  
 <213> Glycine max

<400> 10413

acacatgaat gacaacgcca ctcatctcatg gggctccgaa aaagggtaaa aatggaggat 60  
 ctgcctgaag gtcctctctt aagcaatcat ggaacacaac tccatactcg aaagtggagg 120  
 accca 125

<210> 10414  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10414

tgccttggtgta acttggttaac ccagctggcc ttgaataaga aatctgtacc tgtcgcaaga 60  
 gtctgtggtt tatgtctctt tgtcgaccac catacagatc ttttcccttt tatgcagcaa 120  
 cttggagcaa ttgagcagcc tgaagcttat gtctgcaaac attacaacaa acctcctcca 180  
 cctcagcagc aaaatcaacc acagcagaac aattatgacc tctccagcaa cagatacaat 240  
 ctcggtatgga ggaatcacc taatctcaga tgggtctagcc ctcaacagca acaacaacag 300  
 cctgtctctt ccttccaaaa tgttgttggt ccaagtagac catacgttcc tcttccaata 360  
 caacaacaac aacaacaaca acagccccag aaacaacana cagntgaggc cccnntcgca 420  
 ccttccttga gaacttgtga gganatgact atgcaaacat gcagttcaac a 471

<210> 10415  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 10415

gcatgcaagc ttgactttcg ttcgctcaga tagtattctt tctggatctc attctatctc 60  
cattagaaaa gaggaggaac taagcaaaat gaagacatgg gaagccacat ccacttcaac 120  
atctaaatca attggcactg gcctatcctt acttgaagat ttatatattt gcttggaaga 180  
tcttcttaat gtggcatcaa cgcaaaaagt gatttctaac catcaagggtg agaaatgcat 240  
ggaagaatag cttgatgggt cagcgggaat tctggatatt tgtggcatta caaggaacac 300  
catgccacaa gttaatggaa atgttcaagc acttcattct gctctt 346

<210> 10416  
<211> 358  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10416

actaagctat gctganatat ttataataga cccctcagca gcaaaactct caacttcaga 60  
antaatatga actttcaagc aacaaataga atccagggtg gaggaatcat ccaaactctga 120  
gatgggcaag tcctccataa taacaacagc ctgtccctca tttccagaat gctgctagtc 180  
caagcaagcc atatgttctt cctccaatgc agtagcagca gcaacaacaa caacaaagac 240  
aacaagcaac tgaggctcct tttcaacctt ccttagagga gttagtggag caaatgacca 300  
tccagaatat gcaatttcaa caatagacaa gagcctncat tcagagtctg acaaatca 358

<210> 10417  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10417

tataaacttc aagctntgaa tgctctattc aatggagttg acaagaatat cttcagattg 60  
atcaacacat gctttgtggc caaagatgca tgggagatcc tgaaaaccac tcatgaagga 120  
accttcaaag tgaagatgtc cagattgcaa ctattggcta caaaattcga aaatctgaag 180  
atgaaggagg aagagtgtat tcatgacttc cacatgaaca ttcttgaaat tgccaatgct 240  
tgactgcct tgggagaaaag aatgacagat gataagctgg tgagaaagat cctcagatcc 300  
tcgcctaaga gatttgacat gaaagtcact gcaatagagg aggccaaga catttgcaac 360

atgagagtgg atgaactcat tggttccctt caaaccttng agctangact ctcggatagg 420  
gctgaaaaga gagcaagaac ttgcttcgt gtcaatgatg 460

<210> 10418  
<211> 392  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10418

ctcagcatca taatcaacca caacagaaca attatgacct ctccagcaac agatacaacc 60  
ctggatggag gaatcaccct aatctcagat ggtctaacc tcagcaacaa caacagcagc 120  
ctgctccttc cttccaaaat ggtgttgcc caagcagacc atacattcct ccaccaatcc 180  
aacaacagca acagccccag aaacaaccaa cagttgaggc tctccgcaa cttccctca 240  
aagaacttgt gaggcaaatg accatgcaga acatgcagtt tcaacaagag accagaccct 300  
ncattcagag cttaaccaat tagatgggac aatnggctac accaataaat caacaacagt 360  
cccagaattc tgacaagctg ctttctcaat ct 392

<210> 10419  
<211> 318  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10419

gtcccgtaat atatcgagac gctcganatt gaatgttgat ggtcgntgca aattgaaacg 60  
acaataactt tttactctga tgtctgattg agtcccgtaa tatatcgaga cgcttcgaat 120  
tgaatcttga tgctctgagc aaattcaaac gacaataact tnttactcgg atgtctgatt 180  
gagtcctgta atatatcgag acgctctgaa attaatacga aagctatgag caaattcaaa 240  
cgacaataat ttttactcgg atgtctgant gagtctcgta atatatcgac acgctcgaaa 300  
ttgaatgttg atgctctg 318

<210> 10420  
<211> 458  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10420

aaagacacac gcctgttttac cattttctttt cctgattaca ctccagatta tttttcaaatt 60  
tcagcaaagg tgatgttttcg agtagactaa ctggttgacc caaagcactg tatgcagctt 120  
cagaaattgc acaggcagaa atagccccc aa ctgattcacc acctaaagca tactgctgga 180  
aacctttatt gcatgaagag tcctcttcaa tatcataaga aaactgaata agttgattac 240  
catataaatt tctcaccgtt ccatcatatg catcatacaa atcacgcatg aagaacataa 300  
gtctacgtgt cagtgtacca ggaaggccg catggctcact gaaagagcta tcacgatttg 360  
tactgaatg aacaaaacat tcaagtggat tcaaccagc taaataagaa ctntcaacta 420  
cagcatatgg aatgtatgac tgaacagaaa tcagggta 458

<210> 10421  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10421

actcctacca tgtgccacag gatgcttagc taaatcaatt gctgatttgt tatccatcaa 60  
caaccttata ggactgcaat ttctcaagtt tagttcttcc attaaagctt ccagccataa 120  
agcttgacag gctgccatag caacaacaat atattctgct tcacatgttg acaaagcaac 180  
tacactctgc ttctttgagc accaagagat tggatgatgtt ccaaatttga aaacataccc 240  
agcagtgttt ntctatcat ctttatcacc acaccaatct aaatcactat aaccaaacac 300  
ttctccttct atanttcttt gattgaagga tataaaatgc caagatccaa tgttcctttc 360  
acatacctca gaatcctc 378

<210> 10422  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 10422

cgcttgatgt gacgacattt taatatgtga atgtccatta atttgatgca tgactaacga 60  
gaaccacctt tacaactacg tagactcata accggagata ggcttgaggt caagatctaa 120



tctagttaat tagttggtag atgttcacac caagcttgaa ctttcattct aaacccttta 180  
tctgaccagt aatataattg atcggtatct agcagataag acatttccaa ggttgtgaat 240  
gtaattggtc ggcataatg tcttgctgat ggca 274

<210> 10423  
<211> 372  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10423

ccaacaacac tacaagaac aagaatggca ccatcaagga cagcaaagc cctctcaacc 60  
tcgatggtaa aatgaacgtg accaggcgtg tcaataatgt taatctgcaa caacacattt 120  
cccaggatat taaacatata aatatatgaa gacaaaatta cttacaacac gataattaac 180  
cacaattcac tcagataata aaaatagtaa cagcagaagc attcaaattc caattcccc 240  
tttatatttc ttgattccta ttggttcaaa attcaattca atttaaaatc aaccaacata 300  
acaaactcct caactctgtc caatttatgg cacttcaaaa acacatagca gtaatgattn 360  
ttacatacac tc 372

<210> 10424  
<211> 451  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10424

tgtaatcgat tacacacata ctgtaatcga ttaccagagt gagttttcag anaacattct 60  
caacagtcac atctttttct ctgattctta agtggccatc aaaggcttat atatatatga 120  
ctagagacac aaatttaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180  
caaaattggt ttatcctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttctcttc 300  
ttctttattc tgaaaaggga ttaagaggcc gatggtctct tgggtgtgaaa ggattctaaa 360  
cacaaaaggaa ggattgtcct tgttgtgtta gaacttgaaa aggaattgca agatagtgga 420  
actctcaagc ggggttgcttg ggactggacg t 451

<210> 10425  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10425

ntatgtgatg aacattgggtt aatggcaatg catgaagagc tgaatcagtt aaagagaaat 60  
 gatgtatggg atttagttcc taaaccaacc tctcacaagc caatcgaaaa caaatgggtg 120  
 ttttgaaaca aacttgatga atctggcatc atagtgagga ataaagaaag attggctgcn 180  
 aaaggatata actaagaaga aggaattgaa tatgatgaaa cctatgctct agttgcaagg 240  
 ttagaagcta taagattgct acttacattt gcttgtatta tgaatttcag actttttcag 300  
 atggatgtaa aaagtgtctt cctcaatgga tgcattgaat aagaagtgta tgtagaccaa 360  
 ccactangat ttgtggatca tgaacatcct gact 394

<210> 10426  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 10426

tattcggaga cccatgaatt gattgcctag cgcagattat gcgtcctcca ccatcgagtc 60  
 taaagcccca tggattgatt gcctagcgtt gttcgtctat cctccaccct caaatcttat 120  
 tcggagaccc atgaattgat tgcctagcgc agttcatgcy tccccaacca tcaagtctgg 180  
 agccccacga attgattgcc tagcgttggt catctatcct ccaccctcaa atcttattcg 240  
 gagtcccatg acttcattgc cttgctcggg tcatgcgtcc tacaccatcg agtctggagc 300  
 cccacgaatt gattgcctag cggtgttccc ctatactcca ccctcaaata taattcggag 360  
 acccatgaat tgattaccta gcgctgttca tgcgtccaca accattgagt ctggagccct 420  
 acgaattgat tgcctagc 438

<210> 10427  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10427

tactaatgct cctgttctag ctcttcctga cttttctaaa acttttgagc taaaatgtga 60  
tgccctctgga gtgggagttg gagttgtatt gttacaaggt gggcaccccta ttccttattt 120  
tagtgaaaaa cttcatagtg ccacctcaa ctaccccacc tatgataaag agctttatgc 180  
cttaataaga gccctccaaa cttgggaaca ttaccttgtt tccaaggaat ntgtcattca 240  
tagtgatcat caatcactta agtacatcag agggcaaagc aagttaaaca agaggcatgc 300  
aaaatgggta gagtacctag agcaatttcc atatgttatc aaatacaaaa agggaaaaaac 360  
aaatgtggta gatgatgcc tttctaggag acacacatng ttntgctccc tangagcntc 420  
aaatttatga tttgataata ttagggactt gtatgc 456

<210> 10428

<211> 435

<212> DNA

<213> Glycine max

<400> 10428

tgtaatcgat tacacacata ctgtaatcga ttaccagatg agtttttcag aaaacattct 60  
caacagtcac atctttttct ctgattctta agtggccatc aaaggcttat atatatatga 120  
ctagagacac aaatttaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180  
caaaattgtt ttatcctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttctcttc 300  
ttctttattc tgaaaaggga ttaagaggcc gatggtctct tgttgtgaaa ggattctaaa 360  
caciaaggaa ggattgtcct tgttgtttaa gaacttgtaa aaggaattga caagatagt 420  
gaactctcaa gcggg 435

<210> 10429

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10429

agcttgcacc tgctagccca cggaattagt gggtcgacct atataaaaaa tttttattaa 60  
aaaattaaat tttaaaacgt aaaagttgga aaccatttaa gaactatgaa atatcaaata 120

aaaaattatt tgtccaaaat aattacaata attacatctc aagtcaccta aaaaaagtat 180  
 tnttttcata tcatatntac ttaatttgta attctatatt aaatcaaaat tatcaccatt 240  
 caccanacca ttgaaaaata tataaaagtac ttacattcta tatgtttttt aaaagttatt 300  
 tttttcttaa nttatgcccc ttatttatta gtatcatata tggtatatta nnaatataaa 360  
 agtctgtcag taaaacttgt ttaaacacgc ag 392

<210> 10430  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10430

tatgtgcac acatctacaa cagacctcct caacctcatt atcaaatcag ccacaataga 60  
 acaattatga cctctccaac aataggtaca atcctgggtg gaggaatcat cccaacctta 120  
 gatggtcaaa tcctttacaa cagcagcaac aacaacctta ttttcaaaat gttgctggcc 180  
 caagcagacc atacgttcct ccaccaatcc agcaacaaca gcaacagccc cagaaacaac 240  
 aaacaattga gactcctctg caaccttccc ttgaagagct tgtgaggcaa atgactatgc 300  
 aaaacatgca gtttcaacaa gagaccagag ctttcattta gagcttaact aatcagatgg 360  
 gacaattggc tacacagtta aatcaacaac aatcccagaa ttgtgataga ataccttctc 420  
 aatctgtcca gaatcccnaa aatgtgagtg tcattaca 458

<210> 10431  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10431

tgttggagat aaaggtgntg tggaggcagc cctcgctata ggaagtgaag ttagacattt 60  
 gcaacgcgaa acttttgaag gggctcaaac attgatgtca aattttactg aattcgccac 120  
 ggtggggaag catatgacaa tacttgacag ctcaccaaag cttgaagtgt atcaaactga 180  
 ctttgggtgg ggaaaacca agaggagtga agtagttcat gtagataatt caggaacaat 240  
 ctccctttct gactgtagag acaaagaagg tcgaattgaa gttggggttag cactgcaaaa 300

gattcaaatg aatcaattca gtaccacttt ggaagagcac ctacacagaaa ttggagttct 360  
 tgactgaaaa tctccactca cagaatatgg ttgcacaatg cacacttgca cagttcaact 420  
 cctaccaacc gtacgcgtag aatgataatg atattaactg ttacata 467

<210> 10432  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 10432

taagaggctt ggcagtgcta atggatgttt cccttgattg gagaaggtag aaatattgtc 60  
 taagatggag tgctcttttg ataccactt ttgttgacaga acaatttttc ttcttaacaa 120  
 tcttggttaga ggaatcattt tctcttttat ccttccccctt agactttgaa gacaaggcct 180  
 tactatactt ctttgtcttt tgtgtttcct cctcatcctt cttatctttc atagttagtt 240  
 gatcttttgc cacctgtgaa ggtgtttaag gatgcaacac aaattttgtg ccaagatagc 300  
 tgacggtaat ctcatgtggt aggcaattgc aaacgatctt cctatcaaat tgccatggcc 360  
 ttcctaaaag aatatgtcct gcctgcacgg gaactatata ac 402

<210> 10433  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10433

tatgtgtggg atacctagtg tgagcatagt ttccaaactc ttaaggaaaa gttgacgacc 60  
 gctactatgt tagttttgcc taacatgaga gaaccctttc aggtgtattg tgatgcacca 120  
 aagatggggt taggaggagt attgatgtaa aatgggctaag tagtggccta cgcttctaga 180  
 caactccaga ctcatgagag gaattatccc actcatgata tagagtaggc tactgtagtt 240  
 ttttccctta agatatggag gcattacctc tttggcccca agtttgaggt gtttagtgat 300  
 tataagagcc ttaagtactt gtttatgttg gatcgagtgg cctcagaata attaagaagg 360  
 ngggggg 366

<210> 10434

<211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10434

agcttaagct ccttcaactg cacaaggctt ttaatatattg aagagtatnc ttgtggaaac 60  
 ctcacccgac naaagaccac tgacaactta tctttctctt tctggacaaa gtatggcagg 120  
 gctggggcaa gtaaaatttc tttccatcaa accttggatg caactgtgat cgtatgccca 180  
 tataagctaa atcttgacgg gtattcaagc catccttcgt cttgccttga atgttaaaga 240  
 gcgttccaat cacactgtca caaacatttt tctccacatc cataacatca atacaatgtc 300  
 taacgt 306

<210> 10435  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10435

ttttagtaga tgaagatgaa tttgtggcta cctcatggac tcctctaagg acaatagcat 60  
 gctttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa ttcctagctt 120  
 cagcaagggt catatcacca agatcttcac cattggtagt atcaatcata ctctctcca 180  
 tgttgctaag tccctcatag aaatattgaa gaaggagttg cttagaaatc tgggtggtggg 240  
 gacaacttgc acacaatttc ttgaatcttt cccagtactc atacaagctt tctccactaa 300  
 gttgectgat gcctaaaatg tcttttctga tggcagtggt cctagatgca gggaagaatt 360  
 tctccaagaa caccctctta aggtcatccc agctganaat ggacctgnga gcaaggtagt 420  
 at 422

<210> 10436  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10436

gttcagcttc ttctggcaat ggttggacca gggtcatttt tgaaaagncc tttggtcgtg 60

attcagattc ttcagctgca ttaactagat cactcaagca gtatctgaca gaggatcaaa 120  
 ttttcagggtt ttctaactaa aactgataat cttcaattca actttaagat tgtaaagtac 180  
 attttataaaa atgggaaata ttatacagga ttgaccacta tcttgggaaa gagcttgtgg 240  
 aaaatctttc tgttctccga ttctcaaata tcatctttga accattatgg tcaaggcaat 300  
 atataagaaa tgtacagttg atattctcag aagattttgg cactgaaggg cgtggcgggt 360  
 aacctttatt ccttaacagc ttccacactt tctgttctta taatggggat tcttatacat 420  
 tttcatatct gtaccatgtg taggtactct gaccattatg gtatcat 467

<210> 10437  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10437

tgaagganaa cttgatgtct tgctcaacct agtaactcat cttgtcataa attagaaatc 60  
 tacacatgtt gcaagagtct gtggtctatg ttcttctgca gatcaccata cagatctatg 120  
 tccttccttg cagcaatcta gagtcaatga gcaacctgaa gcttatgcta caaacattta 180  
 taatagacct cctcagtagc aaaaccaaca acaacagaat aattatgac tttcaagcaa 240  
 caaatacaat ccagggttga ggaatcatcc aaatctgaga tggacaagtc ctccataaca 300  
 acaacaacag attgtccctt cttttcagaa tgctgctggg ccgagcaagc catatgttcc 360  
 tcctctaatag cagcaacatt agcagcagtt tgaacaaaga taaccagcaa ctg 413

<210> 10438  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10438

agcttcaatg gctcaatgag caaggggatt tgatagtcaa tcaacaagta aagatacctt 60  
 tttctataag agactatngc gatgaagttt atgttatata ctccctangg aagcaaggca 120  
 cattttgntg ggtagagtat ggcaatatga caagaaaagca atccacaatg gtctcaccaa 180  
 tgaaataacc ttcacccatg gaagcaaaan agtaaaaactt gttcccttga caccttcaaa 240

agtgttggg gatcaagtac aaataaaaact c

271

<210> 10439  
<211> 467  
<212> DNA  
<213> Glycine max  
  
<400> 10439

ttatgcgggc atcgtataat aacaccataa catgatgggt ttggtttaat ttcatttttg 60  
aacacttgcc gctatctttg ctcttagatc cttgcgcaag attttgccctg acggtgactt 120  
gggaattgca tcaatgaaga atactcgggt tattcttttg taaaacacca cctgcacaat 180  
tccacaactc attacattcc ttattttgtg gctaagaaag gtacagtaca catcataaac 240  
ctgtaaaaaa cgcatttata tctgaaagt acccagacat ttagaattag gtgggaagaa 300  
gcggtgtggg tcagttataa gaaaaaatga gaaattatat taatacggca tgaatgagat 360  
tatttttaaa atgaatatat attagatcaa gtgaaaatta atagcaaagt aattataacg 420  
tgttttattt atttattaag aaagtattaa ataatagtga atatatg 467

<210> 10440  
<211> 458  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10440

ntntattcac agaaggaaat tcaataaata ggcttcctat tttaatggag aggggttacc 60  
actactggaa aacacaaatg caaatcgtca ttgaggcaat tgacttaaac atttgggaag 120  
ccatagaaat aagaccttat gtaccactg tgggtgctgg aaatacaaca atagaaaagc 180  
ctanggaaaa ttggagtggg gaagaaagaa gacgagtaca atataacttc aaagccaaaa 240  
acataattac ttcttggata aatactttaa ctcatgagta tgaattgttt aggatgaaga 300  
caaatganag tatataagat atgcagaana gattcacaca tatagttaat catcttgcac 360  
cattaggaag aatattccca aacgaggatc tcataaataa agtggttaaga tgtctaagta 420  
gaaaatggca accaaaggta acagccatca tagaatct 458

<210> 10441



<211> 265  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10441

tctcgatata ttatgtccnc gaatcagaca tctgggggta gagttatgac catttgaatt 60  
 tctcgagagc taccgtagtt caatttcgag tatctcgata tactattttc ccaaatcgga 120  
 tatgccttgc ataagctatg acccattcaa tgtctcgaga tcttcggctg ttcacattca 180  
 agcgtgtcga tatattatgt cctctaatac cacatccgag tgaaatagta tgagtagtcg 240  
 attttctcga gagattccgg tgttc 265

<210> 10442  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10442

ntgagccaat tcagacaaca ataacttttt actcggatgt cttattgagt cccgcaatat 60  
 atcgagacgc tcgaaattga atgttgaacc tctgagcaaa ctcaaacgac aataactttt 120  
 tactcggatg tctgattgag tcccgtcata tatcgagacg ctcgaaattg aatgttgaac 180  
 ctcatagcga attcaaacca caataacttt atactcggat gtctgattga gtcccgtaat 240  
 atatcgagac gctcgaagtt gaatgttgaa gctctcagcc atttcaaacg acaataactt 300  
 tttactcggg tgtctgattg agtcccgtaa tatatcgaga cgctcgaaat cgaatgttga 360  
 agctctgaac taattcaaac gaacaataac ttttactcgg atgtctga 408

<210> 10443  
 <211> 226  
 <212> DNA  
 <213> Glycine max  
 <400> 10443

cgacaatacc ttgtgacacg gatgtctgat tgagtcacgc tttatctcga gacgcttgaa 60  
 attgaatacc gaagctctga gcaggtacag acaacaataa ctttttactc ggatgtcgga 120  
 ttgagtcacg taatatgtcg agacgctcgc aatagaatac cgaagctctg atcagatcca 180

gacgacaata cctattgact cggatgtcgg attgagtcac gtaata

226

<210> 10444

<211> 370

<212> DNA

<213> Glycine max

<400> 10444

tatgaggaga agcataagat taagcaagag atcaccattc tactcttcaa gttgcaactg 60

aaggagaagg aagaaagtca aggaaatgaa agaagtcatt gatgccgagg tagagggttga 120

ggtcacggtc gaggataggt tggaggtggc aatagtgtac gaggttcaaa tttcatcaac 180

aatagttacg agaaatgaaa aagctcaaga gaatgtggaa aaggctatac aagcacaagg 240

tatgataaat ctcaaactcg atgttataaa tgtcaaaaga ttggccacta tgcttcaaaa 300

tgtagattcg ccaagaatag agttgaggag gagactaact atgtggagca aaaggatgag 360

aagttcaaat 370

<210> 10445

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10445

caagctgttt accccatggt gagtntgctt acaatatagc tgttcatagc actactaatt 60

gttctccttt tgaagttggt tatgttttta acccactaac ttctcttgat cttttgccta 120

tgccaatgt ttctatTTTT aagcataaag aaggtcaagt aaaggcggtc tatgtgaaga 180

agcttcatga gagagtcaaa gatcaaattg acaggaaaaa taaaagctat gctaaacaag 240

ccaacaaagg gagaaagaag gttgtcttcg aacctggaga ttgggttttg gtgcacatga 300

gaaaagaaag gtttatggaa caaatgatat caaagcttca accaagggga gatggaccat 360

tttaagtgt tgaaagaatc aatgacaatg cttacaaagt tgagctaccc agtgagtata 420

atgtagttc caccttcaat gtctctgact tate 454

<210> 10446

<211> 407

<212> DNA

<213> Glycine max

<400> 10446

tatacatgag tatgatttta tgatcctatt tctataatgt tgagaaacat agacttcctc 60  
ttcaatgtat ccgtttagaa aagaactttc ccatccattt ggtacagatt taaatctata 120  
atgcaagcaa atgcaaccaa caatctcaca acttctaata taactatcgg agcatagggt 180  
tcaccaaagt ctatatcttg ttgttgggta taacccttga ctactagcct cgctatgtta 240  
ctagttatta agccatgttc atctagctta ttttttaaaa cccattttgc acctataatg 300  
tttgtcttac taggcctagg tactagttcc caaaattcat ttctcttaga ctaattaagt 360  
tcatcatgca tagctataac ccaatgttca taacaagtgc ctattca 407

<210> 10447

<211> 326

<212> DNA

<213> Glycine max

<400> 10447

agcttgaagg taaactagat gccttggttt acctggtaac ccaactggcc ttgaatcaga 60  
aatttgtacc tatcgtaaga ttctgtggtt tatgctcctc taccgaccac catacaaacc 120  
tttgcccttc tatgcagcaa tctggagcaa ttgagcagcc tgaagcttat gctgcaaaaa 180  
tttacaatag acctcctcaa ccttagcagc aaaatcaacc acagcagaac aattatgacc 240  
tctctagtaa cagatacaat cccgatgga ggaatcacc taatctcaga tggcttagcc 300  
ctcaacaaca acaacaacaa caacct 326

<210> 10448

<211> 412

<212> DNA

<213> Glycine max

<400> 10448

tttgcagctg gaatcattta tctatctcc tatagcttat gggtagtcc cgtccaggta 60  
gtcccgaaga agactagcct cacagtgatc agaaatgaga aggaggagct gattcctatt 120  
cgggtgcaga acagttggag agtctgcatt gactatagga ggctgaacca ggttaccaaa 180  
aagaaccatt ttccctgcc attcattgac cagatgcttg aacgcctggc aggtaaatcc 240  
cactactgtt tccttgatgg tttttctggt tatatgcaaa ttactattgc tcctgaggat 300

caggaaaaga ccacattcac ctgcccccttc ggcacttttg cttataggag gatgcctttc 360  
 ggctgtgca atgccccctgg taccttcag cggtgcatga ttatatattt ca 412

<210> 10449  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<400> 10449  
 attatttcct aataactgtc gttcttggtg tgatacatag gagataatat tccattagca 60  
 gaatatatga tcagacattg ctatactggt catttaaacc acgttgaaat tgcacgctc 120  
 tatcttcgag ttttcttttt gcaatgatag caagagtaga acaggtacat cgcacagtag 180  
 aagaacaaat aggatctggc ctaaaattct ctatttcac ccataca 227

<210> 10450  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 10450  
 cgccttgaag ttggactcgg tccttcggtt agagggtcat tctatatgta aatagtccca 60  
 aaaccagaaa tggacgcctt aagaggctca acaattttca tagcagtcgg gtgttcccc 120  
 attatgttgt tatggaaata aaagtggagc tgggtgagtc tttccacggg ttttgtggat 180  
 agagacatag gacactcttt tgtaaacact tcactatttg ctggtaagga acctgacatg 240  
 ataaccatga aatgcaacga aaaaaggaga cacacaagtg aagccatata ggtacaattt 300  
 ttaggtatgt tagccaacgg ttgcaaacag ctatatatat aggctaccag aagatatagg 360  
 taccttgttg tggataactt tattagctac ttt 393

<210> 10451  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 10451  
 ggacacttga aactcagcta gtacatatag ttgcaacctg aggtccttta tagacttatt 60  
 aaaaatatca gccaaagtgt acgagatcta tctttatgtg tttaggatgt tcatggaaga 120

ctaaattaca tgcaacgtga atagagcaac tgcattgtca catataagct tagtgtcttg 180  
 agtggtttgca aactttaatt gctgtacaag gtgcctaagc catgtaattt ctcatgcaac 240  
 ttctgttatg gtatagcatt caactacagc gctggatctc gcagctatat tttgcttatt 300  
 gcttctccat gagatcaaat tccctacgag cagaacacaa tagcctgagg tataactcct 360  
 gtcgcatcag cactagacta acaaacaata ttgacattgt cttcgcttc atatacaaat 420

<210> 10452  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10452

tctaaactnt gtacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
 tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120  
 cttacttttt acttaaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180  
 aatgaagcaa cttgaattat gaatataaag caataataaa taaaggagat taagggaaga 240  
 gaaaatgcaa actcagtttt atactggttc ggccacaccc ttgtgcctac gtccagtc 300  
 caagcaaccc gcttgagagt tccactaact tgtaaattcc ttttacaagt tctaaacaca 360  
 caaggacaac ccttcctttg tgtttagaga ttctttacaa caagagactc acagtc 416

<210> 10453  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 10453

ctcagcttct caagatttaa gttcttcccta acactgttta ttcttagtcc caagtcctat 60  
 aacaacttgc atttgcccat cgagtttgcg ggtgacaagt ggttgaaaat aacaaattaa 120  
 tgcccaactt gctccacaga gtctccaaa taaggcttag gaacttaaag tccctatcac 180  
 taacaatgct ccttggtgaaa ccatggagtc tcacaatctc cttgaaaaac aaatcagcca 240  
 catgggaagc atcatcaatt tttttacatg gaataaaatg agccatttta gagaacctat 300  
 caacaaccac agaaatggaa tctctacat agcttggttt tggcagcccc ataacaaaat 360

ccatggataa atcaatccta ggatac

386

<210> 10454

<211> 401

<212> DNA

<213> Glycine max

<400> 10454

tgtaggcctt ggatcttctt catcaatgga gtcctttgtt tcttgaagat caatgacagt 60

ggaatgcaga aggaggaaag gtgattggag atgccacttc aaggagaaga gagtcaagaa 120

caagttcacc accatatgaa gccatggata agagcttgaa ggttggagaa gatgagtgga 180

gggagaggga gagaaggggc acgaaattta tgccctgaat gaggtctaaa atttgaagtg 240

taattttctca aatgatcaaa gtagaaataa tgacacacaaa aggcctctat ttatagccta 300

agtgtcacat gaaattggag ggaaatttga attttattca aatttcactt gaatttaaata 360

tcgtggagct aaatttggag cctaaagttc actaactatg a 401

<210> 10455

<211> 410

<212> DNA

<213> Glycine max

<400> 10455

accagctgg ccttgaatca gaaatctgta cctgtcgcaa gggtttgcgg tttgcgctcc 60

tctgtgacc accatacaga cctttgccat accatgcagc aacctggagc aattgagcag 120

cctgaagctt atgctgcaaa tagttacaat agacctcttc aacctcagca gcaaaatcaa 180

ccacagcaga gcaattatga cctctccagc aacaaatata accctggatg gaggaatcac 240

cctaacctca gatgggtccag cctcagcaa caacaacagc agcctgctcc ttccttccag 300

aatgtactg gtccaagcag accatacatt cctccaccaa tccacaacag caacaactcc 360

agatacagtc aacagttgaa gtctccaca accttctctg aagacatgtg 410

<210> 10456

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10456

agctggtagg gntaaagtct catgattgtc tcttgctcat gcaacaattg atagccgngg 60  
ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgctg tgctntttat 120  
tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180  
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctctgtt tatctacggt 300  
ggatgtaccc cggtagcgga gtcatgatga tcttaaaagg gtatacaaag aatctatttc 360  
atccagaagc ctctattggt gagagggaca 390

<210> 10457  
<211> 420  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10457

ctcacctatt aggettaaatt tctganatat accccctcc ttacctctcc ctttgatgct 60  
ntacatggag tacttgaagg aagtggaagg aaaaactgtg catgattatc ttgaggtaaa 120  
gatgggtaaa atgacaaagc caataggtgt ggaaggacca gtgatagtgg gtgctggtcc 180  
atcagggctt gctgcagcag catgtcttaa acagaaaggc attccaagcc taatccttga 240  
aagggatgat tgcttggtt caatgtggca gctcaagact tatgaccgac tatgccttca 300  
tctacctaag caattctgcc aactcctct aatgcctttc ccccaaaact tttcctctta 360  
tccaacaaaa caacaattct tggntatatt taaagcctat gctgaccatt ttgacataaa 420

<210> 10458  
<211> 295  
<212> DNA  
<213> Glycine max  
<400> 10458

cacatagaaa tgagagcgat ctaggtcctt tatatcatat tatcgtttta atcaatctat 60  
agtttttaga aattcttcac gagttctaata aatagttata atatctactt aaacaacaat 120  
tatgaaaaat ctattttcat attttgtttc ttcatgaaaa tacatggaca aataggatcg 180  
attttatatt cttccttttag gaaatactca ctaagtgtat catactacat gcgacttgat 240

tgatttagcc tatatgaagt actcttcttg agaatatgta ttatttggca aatta 295

<210> 10459  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 10459

taagaaatct atatatgggt taaaacaagc ctttcgttat tgggtgcctta agtttcatgg 60  
gataatttct tcatttgggt ttgatgaaaa ccccatggat caatacatat accacagggt 120  
cagtgggagt aaaatatgtt ttcttgtttt atatgtagat gatattttac ttacagccaa 180  
tgaccggggt ttgctacatg aggtgaaata atttctttct aagaattttg acatgaagga 240  
tatgggtgat gcatcttatg tcattggcat taagattcat aaagatagac ttcaaggat 300  
tttatgtcta tcacaggaag cctatattaa taaaattata gagagatttc agatgacaga 360  
ttgttcacca agtgtcgtc tcattgtgaa gggatagagg tttaatctga atcaata 417

<210> 10460  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10460

agctcaacac aaggcatgcg aagagggtgg attttctana gcaattccct tatgttatca 60  
aacataatat gggaaatgggt aatattgcat ccgatgctct ttctcggcgc catgcattac 120  
tttctatgct cgaaacaaaa ttgattggtc ttgaatgttc gaaaagcatg tatgaaaatg 180  
atgaaactct tggagaaatt ttaaaaaatt gcgaaaaact ctcagaaaac tggttcttta 240  
tacatgaatg ctttctttta aaaaaacaa actgtgcgtg cctaaatgtt ctactagaaa 300  
tatgcttggt tgcaagcac ttgaaggagg tctaattggg cattttgggtg ttcacaagac 360  
tctataaaca tttcaagaac ac 382

<210> 10461  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 10461



acggacacta tgaaactaag cttgattctt aagaatgtcc ttatttatat tatacacatt 60  
 gttttgctca tcatttaca cttgctcttg ttgcttctgc taaagtagtt gatgtacatt 120  
 ttttttttca aaacttgaat atgattgtaa atgttatgtg ttcttgtaaa cgcaatgatg 180  
 agttacaagt ttcttatgta actaaaattg ctcatttggt tgcaaagtgt gatattgaga 240  
 ctagaaggag agctaataa attggcacac tatagagacc tagagatagt agatgaagtt 300  
 cttatttcta ttcaatttgt agtcttttac gcatgtataa ctatttcagt tcttgaagat 360  
 tttagctgtta aaggatctac ttttgcctaa taaggatgat ctactatgcc tcgaaagaat 420  
 tgatttcatt tga 433

<210> 10462  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10462

actaagctac acagaatcgg atgtatattc tgtgagcata ttttactact ctaactggaa 60  
 gaaccccttt ggtgctagtt agagatatga aatgtgcatt ggaaaaggaa aattttaaag 120  
 caatcttgga cttttcatct ggtgaatggc cgctntttca aaccgaacag ctggcatatt 180  
 tagcattgag gtgttgtaa aagacttggg tgaaccggcc agaccttgtg tcagaaatct 240  
 ggagtgttct tgaaccattc aaagctactt gcattgacac gtcatcacat ttgatttcta 300  
 agaagcttgc tegtgttctc tccattntg tgtgccccat tgtccagggtg aagatcttaa 360  
 tttttcacat tcattctttt taaaaaaact ggtctttatt gtatggaaaa t 411

<210> 10463  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10463

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 aatggatggc gcctctctc acctcttctc ctttgtcttc cgctgcatct ccatggtgaa 120  
 aaatcaccat tgaaggacct cattgaagct caaagatcca gcctccatag aagctccaca 180

agcaagcttc catcaaaatg gctcgaagcg gcttcctaca ccaatgtcac gaggagtgtgta 240  
 gtggtcagat tcatcaagag ggaactgatt tgtcggtacg gactccctag gaagatcatt 300  
 accgacaatg gtaccaatct gaataacaag atgatgtagg aaatgtgcgc ggatttcaaa 360  
 atccagcatc acaattccac gccctatcga ccaaagatga acagagctgt ggaagca 417

<210> 10464

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10464

tgccaatgct ctattggcta atgagtcggg ccatcctctc gaattccaat cgaatcatga 60  
 gtcatcacat aaataactcc agcttcacac agtgcagaaa tccatatggc aactctcacg 120  
 tagtcagtga agacaaaggc catttagatt ttgctgaaac aaatttcttg tagcatctgc 180  
 agggcttttt ggagtgtatg tatgaaagct gaaatttaac tagaagggtg gtcaataatc 240  
 cagaaaaaat gatggaagtc aagttttatt tatcttaaaa ctttgaaggc tatacatgca 300  
 tgaagcaaaa agatggatga tgagtaaaga tgcaatgtac ttaatatgaa ttntaattgt 360  
 aattaggaaa gttaatgaat ataacaaacc atggaaatga atcaccatca ttcagtaaa 419

<210> 10465

<211> 446

<212> DNA

<213> Glycine max

<400> 10465

ttaagcaccg cagctgcagc tctcatccac agcattccat ctgtgttctt attagtaaatt 60  
 ctgatgcact tgccacaatt actaatgatt ccaaattatc atgattcctc actagttcag 120  
 atatcaattt tacaatccgc tgattgattc tccacaactt ctgacctaga ttgtcatctt 180  
 tggcaatcca tggtgcaat tccttctcgg cctgacaagc aacaagtcac gggatgaaaa 240  
 atgaaatatt ttaaaaaaat ctacaaaatg gaagctgatt tggaacacag gttagatgag 300  
 ctcttctgca taagatattt aaactttcta tacattaaaa gctatgtctc atgtgggaat 360  
 ataatatggt aattcaaaaa ttctgtagcc tcgcgcgata attcctaaca attcttgact 420

aacaaaacac gtggcctacc catatt

446

<210> 10466

<211> 226

<212> DNA

<213> Glycine max

<400> 10466

gcattctgag agatgcttct gagcctgacg ctgagagaga tgttcaacat cttcccccca 60

gaagtttctg tggctgatgg cataagaatg tccaacatcc tccgctccaa tgctgaagcc 120

ctccctcacc cagtgaagag gaatcaacgg aagaagaggā tcaagccgca taggagaccc 180

ctgcaccaat ggcaccagaa cctgctccag gagacctcat tgacct 226

<210> 10467

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10467

tgcagctgga ttccttttagt agggaaatcta tccttcctaa gatggagcca aaccagtcā 60

cccttattaa gaactagctc tnttcttcct ctattgcctt tagttaaata caccttgttt 120

ggttctctat ntggttctta accctctcat gcaacttctt tacaaactct gacctagatt 180

ccncttcttt atgtataaaa gaagtgtcta gtgggagggg aatgaggtct aacgagttag 240

gggattgaac ccatagacat cctcaaaagg ggactgcttg gtggttctat gaaccncct 300

gttgtaggca aattctacat gaggaagata ctcatcccaa gacttatggg ngcctttcag 360

atgaaccctt aaaaggggtg ataaagacct attcactacc t 401

<210> 10468

<211> 378

<212> DNA

<213> Glycine max

<400> 10468

ttagcaactc tatgcacaac cccatacttc tggtgcaagg atgacaatga cctgttācaa 60

aagtggtctc cctagtcaact gataatggct ctaggcacac caaacttgca aaaaatgttc 120

gatctcācaa aatccacaac aactttagaa tcattagtta tgggtggcctt agcttcaacc 180

cacctagaaa cataatcaac aacaagcaag atatatgaaa aaccatgaga aataggaaaa 240  
agacctataa aatcaacact cgaaaccagc gaggctgaca gttgctccaa aatagctttg 300  
tcgacctctt ccatcatggt caatagatcc ttgtcaaaat acttgaactt ggtgggggtca 360  
gactgctatt agaacgag 378

<210> 10469  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 10469

tcttagtttc agatgatgca gttgagtttg tagctacctc atgcactcct ctaatgacta 60  
tagcatcatt tttggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120  
tggcttcggc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcactcttc 180  
tctccatatt actgagtcct tcataaaaaat attggagaag aagctgctcc gaaatctgat 240  
tgtgagggca actggcacat atttttttaa atctctccca gtactcatac aggctctctc 300  
cactgagttg tetaatacct gagatcctt tcctgatggc tgtgggtccta gaagcagggg 360  
aattttt 366

<210> 10470  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 10470

cttctatatt tcagctgatg aagattatatt tatggctact acatgcactc ctctaattgac 60  
aatagcatca tttctggcac tcaattgctt ggacatagag acagtgtggg ggacacaaac 120  
actggctgca gcaaagggtca tgtctccaag ggctccacca ctggcagcat ctatcatgct 180  
tctctccatg ttactgagtc cttcataaaa atattggaga acaagctact ccgaaatccg 240  
atgggtgaggg caaccggcac atagctttct gaatctctcc cagtattcat ataggctctc 300  
cccactgagt tgctaattgc ctaaaatata ctttctgacg gctgcgggtcc tggaagcaac 360  
gaaaattttt tcta 374

<210> 10471  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 10471

taactccaat aaaaatgatg agtctaagtg atatttatac caggcgcaat tattgttttg 60  
 tggaaccaga aaatttttgaa gaagcaatta agaaagatgc ttggggggaag gcaatgcaag 120  
 aggaaataga tgcacttgaa aagaacaaga catgagaaac tggttgagaa gccaaaagac 180  
 aaagaagtta ttggagttaa atgggtctac aagggtgaagc ataatccaga tggtttcagt 240  
 ccaaaaagaac aaagaaaaaac ttgttgcaaa gggctattct caacagccca gtgttgatta 300  
 tgaaaaagggt tgttgcaaac ttgttgcca catttgtaag agaatgtaat attttataat 360  
 aaatcatcaa ttaagtccat 380

<210> 10472  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10472

cttcactaca tcaagaatca ccttggtgag ttttctctgn ggctgtctta ctgggttagc 60  
 tccatcctct anatatatc gatgcataca tgtggatggg ctaataccan gaatgtccgc 120  
 cagggtccag cctatagcct tcttattctt cttgagaaca gacaacaact tctcctcttg 180  
 ctcatcagcg agggaggcag atataatcac tggaaaactt ntgctatcat ccaagtaagc 240  
 gtatttcaaa tttgatggca gaggcttcaa ttctgggtgtg gtcggctgga tagtggtaga 300  
 aggagatgggt ttctcaccct gtacctcata tagaaagtca gaggtatgtg tacttccta 360  
 aatatgggta gtcttatctg actctatnaa atcaatctca agaggtaaaa caccaccacc 420  
 agacatgcaa tcaatatcac ttctagaatc actctc 456

<210> 10473  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10473

gcgtctccat atattactgt ctctaatacct acatcgtagt aaaaagttat tgtcgttaga 60  
atgtgctcag agcttctgtt ctgaatattg agagtctcga tatactacgg aacacaatcg 120  
gacatctcag taaaaagtta ttgtcgtttg aatttgctca gagcttctgt tcttaattac 180  
gagagtctcg atatattacg nggattcatt cggacatcca agtaagaagt tattgccggt 240  
tgaatatgct caaagcattc gttgtcaatt acgagcgtct agatatatta c 291

<210> 10474  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10474

ctgcagctaa cnagacatgc tgttctgcat atgaaggta tatgcagggc attctnnttg 60  
gattatgatg gaacagtatt gccttccggt gttaaaactc cgagtcctga tatcattgat 120  
gttctaaata ttctttgcag tgaccctaag aacactgtgt ttatagtaac tggcagggga 180  
caaccacgct gagtgaatgg tatgatcagt gtgagactct tggatatagca gctgagcatg 240  
gttattatct aaagtgagat attcctctcc tcaattctgc tgataatgat aatgcacatc 300  
ctctatttat attttacaag aatgagaagg aagggaacca tatgaggag aaggaataga 360  
tatgtagggt ttcatacatc gacgatgcat atatttgcat catatgtagt ggattagtta 420  
tctatacatt ctattggtaa gttct 445

<210> 10475  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10475

agcttncatc actaaccctc aggagactaa ggagatagat ctcatgttat agaattgttg 60  
gagaagggct gngtccaaga gaggctaagc ccatgtgcta tgccgatgta gttggtgctc 120  
caaaaggatg gtacgtggag aatgtgtaca gattgcatgg ccatcaacaa catcacgata 180  
aagtataggc accccattcc tagactagat gatttgctng atgagttgca tggtgccaat 240  
atctnttcat aatatgatct tataagtggc tatcaccaaa tcaggatgaa atagggtgat 300

tgtagtggt tagctctact gagctttaag agattggcta agattntggt aatacataag 360  
 cacttagaca atgaatgaaa gctggagttg ctgcacatga tgtccaacgt tatgtcaagg 420  
 aataagatct ggctgcaca 439

<210> 10476  
 <211> 266  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10476

tcgggtcttca atttcgagcg tctcgactta ttncgtgtct caatcagaca tccgagtaaa 60  
 aagttattgt catttgaatt tgctcagagc taaggcattc aagtccgagg gtctcgatat 120  
 attacaggac tcaatcagac attcgagtaa aaaacttatt gccgcttgaa ttggtcaga 180  
 gctttggtat tcaatttcga acttctggat atattacggg tctcaatcag acatccgagt 240  
 aaaaaagtta ttgctgtttg aatttg 266

<210> 10477  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10477

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 aggtctctcc acctttgggc gtattctatg aaagatctgt gcccctttgt acacgttcta 120  
 ttgttgcac ctatcccgaa ccatatcana attgtactga tactgcctaa tgaaggcaac 180  
 cattangtcc ttccaagagt ggactcgaga atgttccatg ttagtgtacc aggtaacagc 240  
 taccacagta agattntctt ggaaggaatg taccagcagt tcctcatctt tttecatgc 300  
 nncatcttc cgataatata tcttta 326

<210> 10478  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <400> 10478

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aaagatattg tcgtttgaat tgggtcacag gctcaacatt caattttgag cgtctcaata 120  
tattacgaga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttgggtcaga 180  
actttaacat taaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 240  
aaaaagatat tgtcttttga attgggtcag aggttcaaca ttcaatttcg agcgtctcaa 300  
tatattatgg gactcaatca gacatccgag taaaaagtta ttgtcgcttg aattgggtca 360  
taggttgaac a 371

<210> 10479  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10479

gtctaatega gtccattata tatcgagacg ctcgaaactg aatggtgaaa ctctgagctg 60  
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gctcgttaatt gaatggtgaa cctctgagcc aattcaaacg acaataactc tttatctcgg 180  
atgtctgagt gagttccgaa atatatcgag atgggtcgaaa ttgaatgtcg aacctctgag 240  
gcaattcaaa cgacaataac tatttactcg gatgtctgat tgagtcccgat aatatatcga 300  
gacgtcaaaa aatgaatgta gaacctctga gccaaagtcaa acgacaataa ctctgtactc 360  
ggatgtctga 370

<210> 10480  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 10480

tttactcggg tgtccgattg agttctgtta tatatcgaga tgctccaaat tgaaaatagt 60  
agctectagc aaattcaaac cataataact ttttactcgg atgtccgatt gtgtcccgta 120  
gtatatcgtg atgtcgaaa ttgaaaacat aaggtctgag caaattcaaa cgacaataac 180  
tttttactca gatgtccgat tgagtcccgat aatatatcga gatgtcccaa attgaaaata 240



gaagctccta gcgaattcaa aacataataa ctttttactc ggatgtccga ttgagtcccg 300  
cagtatatct agacgcttga aattgaaata gaagctctga gcacaatcaa acgacattaa 360  
cttttttc 368

<210> 10481  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10481 .

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ggtgaaaaac aagagcaagt ctttgctttg ctcaaagaat agcttactaa agcacctgtt 120  
ctagctcttc ctgactattc taaaactttt gagctagaat gtgatgcctc tggagtggga 180  
gttggagctg tattgttaca aggtgggcac cctattgctt attttagtga aaaacttcat 240  
agtgccaccc tcaactaccc cacctatgat aaagagctnt atgccttaat aagagccctc 300  
catacttgng aacattacct tgtttccaag gaattngtca ttcatagtga tcatcaatca 360  
cttaagtaca ttagagggca aagcaagtta aacaagaggc atgcaaatg ttagagtac 420  
ctatagcaat ttccatatgn tatcaaatac 450

<210> 10482  
<211> 175  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10482

aaataacaat ttagtgccca acttgctcca canagtcctc caaaaatggc ttatgaacct 60  
agagtcccta tcaactaaca tgctccttgg ctaaccatgg agtctcacia tctccttgaa 120  
aacatatcag ccacatggga agcatcatca actcttttac atggaataaa atgag 175

<210> 10483  
<211> 365  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10483

taatccaatt aaattntata tggggagggtg agcatttgct tatttcaccc cattgtcaca 60  
 tcatatagtc acactttgta catgtccttc atgctttata tgcctcatga cacctaagca 120  
 cacttagtgg agaattttgg aattgatctt ggattagtcg gctgaaccat aactaaaatt 180  
 cactaatcat aattagtga attttgactc caaagtttgg ttccacaaat tcaagtaaaa 240  
 tttgaattga aattcaaatt tccctccaat ttttgtgaca cttaggctat aaatagaggt 300  
 catgtgtgtg catttttttg aactttgatc atttgaatat tgaactttag atttcagagc 360  
 tctttt 365

<210> 10484  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 10484  
 tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60  
 agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120  
 gcggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180  
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
 ctgtgatagc tgcaggagtt tgttgaaatg gatgatttgc ttcacaaagc aatccaagt 360  
 gagcaacaat taaaa 375

<210> 10485  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 10485  
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 agtggccaaa gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagttaa 120  
 gatgtccaga ttgcaactct tggctacaaa attcgaaaat ctgaagatga aggaggaaga 180  
 gtgtattcat gacttccaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240  
 agagaggata acagatgaaa agctggtgag aaagatcctc agatccttgc ctaagagatt 300

tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt tgcaacatga gagtggatga 360  
actcatt 367

<210> 10486  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10486

tgctctganc cggctncctt attcgattgt tctatcattg ggnntagttt cctattcaag 60  
tttactatt cttgaaagat ggccagcaca atcaagatcg agaagttcac aaggaagaac 120  
aatttcaatc agtggcaa at caagatgcga gctctgttga aggaacaggg catctgggca 180  
ccactctcca gcagatcctc caacctagaa gcaccccttc tggagcaaca agaagaaaag 240  
gctcactcgc tgattcttct gtctctctca gatgaagttc tctacgaggt ggctgaagaa 300  
caaactgttg ttgggtgtg gctgaagctg gagaaactct acatgacgaa gtccatct 358

<210> 10487  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10487

aaatctaagc tggatcacat tggggcaagg ttttttttat ttggctgcaa acaagtctga 60  
catagttctg ctatccacga tgaaatctat gatgtctgga tgagtgggaa cactctcng 120  
acatgctcac atctattgct gaggcagatg tggttttcac caacacagca tcagagaatc 180  
cattgatctt gacggaggat gtaaaggacc ttctctctgc caccaatgaa gttggtggcc 240  
gccgcctgta caccaagatt tctgttctca gaaatgtcgg atcatgtctc tcacaccttg 300  
agtctgtgag aggttacatt gttgatgacc t 331

<210> 10488  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 10488

gcttatgctg canatatgta caatagacct tctcttctat cagcagaatc aaccacagca 60  
gagcaattat gaccgttcca gcaacagata caaccctgga tggaggaatc accctaacct 120  
catatggtcc agccctcatc aacaacaaca acagcctgct cctttcttcc aatatgctgc 180  
tggcccatat tgaccataca ttctccacc aatccaacat catcatctac tccagataca 240  
accaacagat gatgcccctc cacaaccttc cctcgaagaa cttgtgaggc gaatgactat 300  
gcagaacatg cagnntcagc aagagaccag agcctccatt cagagctta 349

<210> 10489

<211> 369

<212> DNA

<213> Glycine max

<400> 10489

tctcgatata ttatgtgcc gaatcggctt ttcgtttgaa aaattattac catttgaatt 60  
tctcgagagc tttggctggt cagtttccag tgtctcgata tattatgcgc ctgaatcgga 120  
cctttgtgtg acaagttatg aacatttgaa tttctcgaga cctttcgggt ttcaattaag 180  
atcgtctcga tatgtgatgc gccagaatcg gacttccgtg tgacaagtta tgaccattgg 240  
aatttatcga gaccttccga tcttcaattt cgagggtctc gatatattat gtgcctgaat 300  
cggactttcg tgtgacaagt tatgaacatt ggaatttctc gagaccatac gttgtcaatt 360  
tcgagcgtc 369

<210> 10490

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10490

agcttctaga tatattatgc gccggaatca gacttccgtt tcataagtta tggcccatatg 60  
aatntctcga gagcattcgn tgctcaattt cgagcgtctc gatatagtct gcgcgtttat 120  
cggacttccg tgtgacaagt tatgaccatc tgagattctc gagggcttcc gatcttcaat 180  
ttcaagcttt tcgatatatt atgcgcctga atcagacttt ctgtacacaa gttatgacca 240  
tatgaatatc tcgagagcct tcgttggtta atttcgagcg tctcgatata atatgcgcct 300

gaatcggact tncgtgtgat agagtat

327

<210> 10491  
<211> 166  
<212> DNA  
<213> Glycine max

<400> 10491

ttatctttta gatctttaag tgcagatddd catgtataat gatagatctc atccagcgca 60  
agttgttgca gccagatac gcacactgct atataaacat gaaagctgca cgagttttcc 120  
accaagtccg ggattgaaga gttatdddgt gagttttggg acttga 166

<210> 10492  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 10492

agcttcctcg tggcttcttt gagaagcttt ctcaagaggc ttctttgaga agctagatcc 60  
ttatctatcc acaccctct attaactaaa ttaacttct taaaaataat tacggatgaa 120  
aataacgcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180  
tatcaggggtg ttacaactct cccacccttt tagaaatttc gtcctcgaaa tttaccttac 240  
tcaaacaagg atgggtgagc ttctcacatc tgactttcta attcccatgt ggcattcttc 300  
cctgatgcac ctcccagat caccttgacc aacagaatct ctttccctct taggtgtttt 360  
gtttgcctat cctcgatcct caaatgcaat gtttcatatg tcaaattctc cttcacttgt 420  
ac 422

<210> 10493  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 10493

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ttttcatcaa agattctaca catgttggtc aactgtgcaa agttatgaat accgtgataa 120  
tttaccatca tctttacttc tggtcgaagg ccattgacaa atttcacgca tttggacctc 180

tccccagctt cccctgata atgaggaaaa taccttaca ggttctcaaa cctcgccgca 240  
 cactctgcca cegtcatact ttcatgtttc agctcaagaa actccatctc cttcctattc 300  
 ttcacatctt ctggaaaata cttctccaca aaagtttgtc tgaaagtctc ccattggaca 360  
 acaacaccac ctgctccctc taaacgtggg cgagtgttct cccaccagta ctcc 414

<210> 10494  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 10494

agctttgagc caattcaaac gacttatact ttttactcgg atatctgatt gagtcccgta 60  
 atataatgag accctcgaaa ttgaatgttg aagctcttag attcaaactg caataagtat 120  
 ttactccgat gtctgatttt gtcccgatcat atatcgagac actcgaaatt gaatgttgaa 180  
 gctctgatcc aattcagacg acaataactt tttactccga tgtctgattg agtcccgtaa 240  
 tatatcgaga cgatcgaaat tgaatgttga atctctgacc aaattctaac gacaacatct 300  
 ttttactcgg atgactgatt gggctctcga acatctcgag acgctcgaaa ttgaatgttg 360  
 aacctccggg ccaattcaaa cgacaataac attttactcg gatgtctga 409

<210> 10495  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 10495

agctttgtac gttgacgtag gtgttattga acaaataaa cacatcccaa aacatgaggt 60  
 ggtaaataaa ccctgtaagg aaggatacaa tgaccagaca atacatctag aggccttcta 120  
 aagttaagca cactagaagg ggttcaatta atcaaataaa ctgcagatct cacagcctca 180  
 ccccataaat gagatgggac attatcatct atcaaaagtg atcttgtcac ctctaataa 240  
 tgtctatttt tctctcagt cactccatct ttttgtgggtg aataaagaca tgtgggttga 300  
 tgcaagattc cattagagat cataaactct attaattcag tcttaaaata ttccccctca 360  
 ttatctgac taatgacctt agtatatgtg ttaaaatata tagctatcat ctgatgaa 418

<210> 10496  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10496

tcaacatcag accacttcca gggatgatgga acttcttcac atggacttga tggggcctat 60  
 gcaagttgaa agccttggag gaaagaggta tgcctatgtg gttgtggatg atttctccag 120  
 atttacctgn gtcaacttta tcagagaaaa atcagacacc tttgaagtat ttaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgtgatcaag agaatcagga gtgaccatgg 240  
 cagagagttt gagaacagca agtttactga atactgcaca tctgaaggca tcactcatga 300  
 gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa ac 352

<210> 10497  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 10497

tgagggtgta acagatgcct ggggtaacct gggtacccat ctgtccttga atcagaagtc 60  
 tgtacctgtc gcaagactct gtggtttatg ctctctgcc aaccaccaca caaacctttg 120  
 cccttctatg caacaatctg aagcaattga atagcctgaa gcttatgctg caaacatcta 180  
 caatagacct cctcaacctc agcagccaaa tcagccacaa cagaacaatt atgacctctc 240  
 ccgccacaag aacaatcccg ggtggaggaa tcatcccaac cttaaattgg cgaatccttc 300  
 caacagcaac aac 313

<210> 10498  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10498

agcttntana atttatatca aattatctat gangattaaa gaatctatcc atgttgcttt 60  
 agatgagact aaccctataa ggccaagaaa ggaaacactt gatgatatta taggttcatt 120  
 agaagacatg cacattgatg agaaagggct caaaggcgca ggaaatggaa atgaagaaga 180

ctgtcaaatt gatgaaaata aaacaaatat agatcttcca agagagtgga gaacttcaag 240  
 acatcatcct cttgataata tcattggtga catctcaaaa ggggtaacaa ctcgacactc 300  
 tctcaaagat gcatgcaata atatggcttt tgtttcctta attgaaccta aaaattttaa 360  
 tgaaatcata attgatgaac attggattat t 391

<210> 10499  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 10499

agcttgaggg aaaacttgat gccttggctc tcctagtaac tcagcttgcc atgaatagga 60  
 aatctgctcc tgttgcaaga gtctgtggtc tatgttcttc tgtagatcac cataaagatc 120  
 tttgtccttc tttgcagcaa tttggagtca atgagcaacc tgaagcttat gctgcaaaca 180  
 tttataatag accccctcag cagcaaaacc aacaacagta gaataattat gatctttcaa 240  
 gcaacagata caatctaggt tagagaaatc atccaaatct gagatgggca agtcctccac 300  
 aacaacaata gcatgtccct cttttccaga atgttgctgg tccaagcaag ccatatgttc 360  
 ctctccaat acagcagcag tcacaacaaa gacaacaagc aactg 405

<210> 10500  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 10500

agcttatcgt tagtttaatg gttttatctt acatcttata aaattttggt ttaccctgat 60  
 tttataagat ctttaaagtt atatattttt cctaattgtt ggcaaagaac attatccaac 120  
 ttttgagatt gagtaagggt atgtgaaaaa gtaaactgtc atcgtgtctc atacagcctt 180  
 ttatatctta tctcgggtta tcatcttctc cagccttttg tatattaatt taaattttaa 240  
 tatgaattat ttttaaatac actaaaatac tatactatct tttgttggtta gacttctcaa 300  
 ccttcattta tatgtgtaac aacctatatt gaattaagga ttaggatttt tgttcatctg 360  
 gatatgatga tattgaatcc attcttctcc tcgagataaa atatctagaa ttgatagttg 420  
 tg 422



<210> 10501  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10501

tgntgngtgt gtatgataat gtcctaata gtttctctta tgattgtttg catgacacca 60  
 acaatagcaa tgttgttgtt cccttgatc ggaaacgaag actccacatc tgcattgggg 120  
 tggctcgtgt actacataca ctacatctat tttggaacca acatacctat catactccat 180  
 acagtgaat caagcaacat tcttttggcc ctgaatttgg tgcttagtgg cagattttga 240  
 gttttgcaag aagtcccaa gggattcaat gccaaaacca ccaagagttg agttgagggg 300  
 gaacttaata acttttgggt ggtgtaactg attctgaatc ctaactttgg tcctg 355

<210> 10502  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <400> 10502

tttgagcaat tcaaattggtc ataacttttc cttcgggggc agattcaggc gcataatata 60  
 tcgagacgca agaaattgaa caacggaagc tctcgagaaa ttcaaattgct cataactttt 120  
 aacacggaag tccgattcag gcgcataata tatcgagact cacgaaattg aataacggat 180  
 gctctcgaga aattcaaattg gtaataacct ttactcggga tgtagattc aggtgcataa 240  
 tatatcgaga cgctcaaaat ttaacaattg aagctatcga gcaattcaaa tggtcataac 300  
 ttttacttg gaggtccgat tctggcgcat aatatatcta gacgcacaaa atttaactac 360  
 ggaagcta 368

<210> 10503  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 10503

agcttaacaa tcagtgtcat acttttgttt ataacaaagc aggtataaat atgcaatact 60

agactcaaaa tatgcaacaa acactagacc taaatcagtg tcacagaaat tggaagaaaa 120  
 tattttatcc aagcacagac ttcaagcctt attccatgta ttgggggggaa gttatggctg 180  
 gccatatggg tagaggtgtc atagaagagc aggtatggag gaagggacct tggactgctg 240  
 aagaggacag gttgcttggt gagtatgtca gggtgcatgg tgaaagcaga tggaactctg 300  
 ttgctaggct tgcaagtaag aaacacccaaa cttttttcac tgttttggtt cttaatatat 360  
 atgattggat tttcacattt ataagtgaca atatagcaaa aaaacaactg aaattgtttt 420  
 caact 425

<210> 10504  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 10504  
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 ataggttggg cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatttaa 120  
 ctctttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaatac 180  
 ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa gggaccaatc actagaacca 240  
 tgagcaagag gctccaagaa gattgggcta gagctgctga agaaggccct agggttctca 300  
 tgaaccttag ggtagatttc tgagcccatg ggccaagggt ggggtccaatt atctttgtac 360  
 atattagact aagatgtcat tatatttggt ccttgatatat agggctccat attgt 415

<210> 10505  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 10505  
 aactaattga taaccgatg aagagcattt ttggggccgt tctcttctta caggttccca 60  
 tagacacttt ataactgatg ttgccatgat tacatttggc atacatatca atcaaggcag 120  
 tttccacaat gacctcagac tcgagctttt gccttattgc ccatgcatgc aggcacttgc 180  
 catatttgaa ataaacccaaa ctgccacatg ctgatagaaa agaagctatg cttaccgaat 240  
 caggtttaac tccttcacac tgactcctac gaaaagcatc agatcacttc tatcatcccc 300

attcaaaatt atccattaat caaagtagtc catgtaacca catctttctc atccatcctc 360  
 ttcgctagca accatgc 377

<210> 10506  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <400> 10506

agcttttcgcc tcccgatattt tcttttatga gccccgcaag ggcgccgaca tctcgtgga 60  
 ggcgctggag cggcagggcg tgacggacgt ctctgcctac cccggaggcg cctccatgga 120  
 gatccaccag gcgctcactc gtcacatcctc catccgcaac gtcctccctc gccacgaaca 180  
 gggcggcgtc ttgcgcgcgc agggctacgc ccgctcttcc ggctcccccg gcgtctgcat 240  
 cgccacctcc ggccccggcg ccaccaacct cgtctccggc ctgcgcgacg ccttgcttga 300  
 cagcgtcccc ctgcgtcgcca tcaccggcca ggtccccgc cgcattgatc gcacagacgc 360  
 cttccaagaa acccccatcg tcgaggtaac acgttccatc actaagcata actatctc 418

<210> 10507  
 <211> 308  
 <212> DNA  
 <213> Glycine max  
 <400> 10507

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 atcgagacgc tcgaaattga acaatggaag ctcttgagca attcaaattg tcataacttt 120  
 ttactcagat gtcctattca ggcacataat atatcgagac gctcaaaatt gaacaacaga 180  
 agctctcgag aaattcaaatt ggtcataact tttaactcgg aggtctgatt gaggcgcatt 240  
 atatatcaag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atggtcataa 300  
 cttttcac 308

<210> 10508  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <400> 10508

agcttccatt gttcaatttc gaggttctcg atatattatg cgtttgaatg agacctccga 60  
 gtgaaaagtt atgaccattt gaattgctca agagcttcca ttgttcaatt tcgagcgtct 120  
 cgatatatta tgcgcctcaa tcggacctcc gagtcaaaag ttatgaccat ttgaatttct 180  
 cgagagcttc cgttgttcaa tttcgagcgt ctcgatatat tatgcgctc aatcggacct 240  
 ccaaaataaa agttatgacc atttgaattg ctcaagagct tccattgctc aatatcgagc 300  
 gtctcgatat attatgcgcc tgaatcggac ctccgagtga aaagttatga ctatttgaat 360  
 tgcttaagag cttccattgt tcaatttcga gcgtctcgat atattatgcg cctg 414

<210> 10509  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<400> 10509  
 tctacggttc tgcattcaga gagatgaatg aattttgatc tatgagtaca tgcctaacaa 60  
 gagcttaaac ttctacctat ttgtttggct tttggcttat cttctgtcaa aggaaaaatg 120  
 tctacatgta gcatatttac agggccacct tactttgaaa cagattcacc tagaaagaat 180  
 ttgctagagt gagaaaaaca gttgaacatc attggaggaa ttgctcaata acttctatac 240  
 cttccaagta ttcaagacta aaagtg 266

<210> 10510  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 10510  
 taaatatcga gcgcactcga tatataacga gactattagg acttccgagt gaaatgttat 60  
 tgtcgttcga ctttgctacg agcttaggtt ttaaaattcg agcgtcacga tatattacgg 120  
 gactcaatca gacttccgag tgaaatgtta ttgtcgttcg aatttgctac gagcttcggt 180  
 tttaaaattc gagcgtctcg atatattacg ggactcaatc ggacttccga gtgaaatgtt 240  
 attgtcgttc gactttgcta cgagcttcgg ttttaaaatt cgagcgccac gatataattac 300  
 gggactcaat cagacttccg agtgaaatgt tattgtcggg cagaattgct ac 352

<210> 10511

<211> 308  
 <212> DNA  
 <213> Glycine max

<400> 10511

taagcctata gaaggcaagc atatggcctt cttgatccac acgcgacaat atcagaaacg 60  
 agtgaagaac acttttgaca agaaggtacg cccgtgccgg ttcacogaat gggactcggc 120  
 gctgaagaaa gtctccaag ctttgaaaga taccagaaga aagtgtgcc caaactatga 180  
 tgggcctttc attgtaaaaa gggctttctc ccgagggggc ctgggtgctcg ccaacatgga 240  
 ttactaggag ctaccttttc cgtgaactt cgacgttgct aatcgatact acgcttaaca 300  
 tctggggc 308

<210> 10512  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 10512

agcttgcac ctgagacttt ctttttgata tatacacatg ttgcttatga gtacatggct 60  
 aatggttcat tggataaatg gatattcaac aagaacaaag aggaatttca gggggattgg 120  
 gatacaaggc ataacatagc acttgggaata gcaaaaggac tcgcttatct acatgaagat 180  
 tgtgactcaa acattattca ttgtgacatt aaaccagaaa acgtgctcct agatgataat 240  
 ttcagggtta aggtttctaa ttttggtttg gctaagctca tgaaacgtga acaaagacat 300  
 gttttcacia cacttagacg cactataggg tatcttgac ctgagtggtat cacaactgt 360  
 gccatatcag agaaaaatga tgttgatagc tatgggatgg tgttgctaga gatca 415

<210> 10513  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 10513

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 ggtcaccgga gttgacaaaag tcaatgatga tttctcctga gagcaccttt tctctcacia 120  
 agtgacaggc aatttctatt tggtagtct gctcatggaa gatcggattt gatgcaaccg 180

ggagagcaac ttgattgtcg cataatatct tgagtgtctc caattttagc tgggtggagaa 240  
 tttgcctagc catgtaacct tggatgcaat agctgccata gcatgacact tagctttaac 300  
 actggatata gcaaattggat tctgcttggt actc 334

<210> 10514  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10514

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 atttcgcatg caacttctgt catggtatag tattcaactt cagcgtgga tctcgcaact 120  
 atattttgct tcttgcttct ccatgagatc aaattccctc caagcagaac acaatagcct 180  
 gaggtagaac tcctgtccaa tcagcactag agtaacaaac aattttgaca ttgtcttcgt 240  
 cttcatatag aaatccgtgg cctgggtgcgt tcttgatata tctgagaatg cgcattgacaa 300  
 cattccaatg gctatcaciaa ggggcattga gcaattgact taacactctg caaaagtgat 360  
 gtctgggtctg gtgacactga ggtaactgag tctgccaaca agtttgtgat atcttcttg 419

<210> 10515  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <400> 10515

tttgcccaat tcgctgttga tctcgataat gcttctcaaa atcaattagc aagaggtcaa 60  
 cgattgcgcg agttgcttaa acaatcccaa tcagctcctc ttaccgggga agaacagata 120  
 ataactatct atactggaac gaatggttat cttgattcat tagaaattgg acaggtaagg 180  
 aaatttcttg ttgagttacg tgcttactta aacacgaata aacctcaatt caaagaaatc 240  
 atatcttcta ccaagacatt cactggggaa gcagaagtcc ttttgaagga agctattcaa 300  
 gaacagatgg aactctgttt actacaggaa caagtcgaaa aaaattgatt aatca 355

<210> 10516  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 10516

gcgggggaac gctagctccg atagaaaagt tatgaccatt tggattgcc aatagctgtc 60  
atagaacaat ttccagcggt tggaaatgat atgcgccttg atcggacctc cgagggaaaa 120  
gttttgacca cttgaattgc tctagagcct tcgttgatca atttcgagcg gcttgagata 180  
ttatgcgcct gaattggacc tcctaattaa agctttgacc atttgcaatg ctcagagcg 240  
ttgatagtcc aatcacccgc attttataag tgtatgcacc tgaattggat ccccgagtga 300  
gaagtttgga ccattggaat tgaagaaaag gaatcactgc ttgatcttcg a 351

<210> 10517

<211> 226

<212> DNA

<213> Glycine max

<400> 10517

ttgcctcaca agttctctca ggaaggttg cgcaggggtc tcaactgctg gttgttttcg 60  
gggctgttgt cgttgctgga ttggcggagg aatgtatggt ctgcttgggc catcacccat 120  
ttggaaggaa cgaccctgct actcgtgttg ctgtcgaggg ctataccatc tgagattagg 180  
gtgattcctc cccccaacgc tgcttctatt gctggagagg tgataa 226

<210> 10518

<211> 362

<212> DNA

<213> Glycine max

<400> 10518

ctggacttcc tgtgttttgg gaacctctcc ttctcaggt gtacccaaac ccaatcacct 60  
ggttcaagca tgactttctt tctgcttttg gtggttgcc ttgcatagct cgcatttttc 120  
ttttcaattt gggccttcac ttgctcatgc aactttctca catactcagc tttagcctgg 180  
gcatccttat gcttaaacad agcaatgtta ggcataaggca acaaatcaag aggagtcaaa 240  
ggattaaatc catacactat ctcaaatggt gaacaattag ttgtgctatg gacagcccg 300  
ttataagcaa actcaacatg aggcaaacag gcttcccaag atttaagatt tttctttaaa 360  
ac 362

<210> 10519  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 10519

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 acctcccatc tttaatggac tgggttacca ctactagaaa acccgcatgc aaatctttat 120  
 agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180  
 aatagccgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240  
 attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300  
 atactttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360  
 acatgaaggc acaacagatg ttaaagatc taggataaac actttaattc gtgaatatga 420  
 actt 424

<210> 10520  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 10520

agctttgaat ggaggctctg gtcttttgca gaaactgcat gttctgcata gtcatttgcc 60  
 tcacaagttc ttcgaggga ggttgaggag gggctctaac tgttggttgt ttttggggct 120  
 gttgttggtt ttggattggt ggaggaatgt atggctctgct tgggccagca gcattttgga 180  
 aggaaggagc aggctactgt tgttgctggt gagggctaga ccatctgaga ttaggggtgat 240  
 tcctccatcc aaggttgtat ctattgctgg agagggtgata attgttttgc tgaggttggt 300  
 tttgctggtg aggttgagga ggtctattgt aaatgtttgc agcataagct tcaggcttct 360  
 caattgctcc aggttgctgc atggaagggc aaaggctctgt atggcgggtca gca 413

<210> 10521  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 10521

tgtgcctctt cacgtctgga atatgaatgt attttataga tccaaagacc cttagggtgct 60



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 ttggacatca gttgagtatg taaacagcag tgtaaactgc tttagcccag aatgtgttat 180  
 gtacttgagc atcgatctac ccatctccat aactgagcaa ttctttctct ctgacactcc 240  
 attttggtga ggaggata 258

<210> 10522  
 <211> 344  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10522

taacaaaagg catgtgaagc ggggtgaatt tctagagcaa ttcccttatg ttatcaaaca 60  
 taaaaaggga aaaggtaata ttgtagccga tgctctttct cggcgtcatg cattactttc 120  
 tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttgga gaaattttta aaaattgtga aaaattttca gaaaatgggt tctttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaaatt gtgtgtgcct aaatgttcta ctagaaatnt 300  
 gcttgtttgg gaagcacatg aaggagggtt aatggggcat tttg 344

<210> 10523  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <400> 10523

tataccaaat tcaaacgaca ataactttat ttttgatgtc cgattgagtc ccgtaatata 60  
 tcgagacgct aaaaattgga aacggaagct cgtagacaat tcaaacgaca ataacatttt 120  
 actcgaatgt cctacagagt ccacgaatat attgagacgc tccaaattga aaacagatgc 180  
 tcgtacaaaa ttcaaacgac aataactctt tactcggatg tctgatagag tcccttaata 240  
 tatagagatg ctccaaattg aaaacagagg ctcgtggcaa atttaataga caataacttt 300  
 ctactc 306

<210> 10524  
 <211> 482  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10524

tagtgtagtt aggaggtagc cttccctcga agtaaggcta gttatcttct tcctctccct 60  
cgtgacctct gctcataaca cactgaggga tcaaaatgtc acaaaaatga ttatcaacat 120  
gactattaaa cagatgagac caaaatgtca gaaagttttc attggactaa tatcccaaata 180  
tgtgtttcat ttaaggggta aaatataatt aattttcatc ttttcccttt ttttatgggt 240  
tcacttatta actataaaga ctaaaaggga taagtttgga aactatagag actaaatgag 300  
taattaaacc tttnttattg ttacaagcat aacattacaa ttaataaaca ttntaaaaaa 360  
taggaaagca agcttaagtt agaacaaaca taataataag cataatatng attaaaaaac 420  
ataatttatt tgttgctcca gaaattctaa tgtgacaata tntccaaaat atgatattca 480  
ac 482

<210> 10525

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10525

ctaagcttat atgcaggacg cattgagtgg tcctctatc ataagaagct ttctattttc 60  
tcaaatccgc tatgatcaac accccagttc tggcccttcc catattccat gaaccatatg 120  
tcgtcgagac agatgcttca cgcactgcc a tgggggctgn gctctcttag caagggcacc 180  
cattagcgtt cttcagcaag aacttcaacc ctcgcctgct taatgcgtca acctatgtga 240  
gggaactcca tgctatcaca tncgcagtgc gcaaaaggag gcaatatctc ctcggcagct 300  
cttcacgac cataccgac acaagagtct tcgcgagcgt atgactcagg tgattcaaac 360  
gccagaacag cactatcacc ctttcaaata gctagggctt gatacacaat tcaatac 417

<210> 10526

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10526

ngctaacca tggaagctcc taatatctcc cactcttttt tgggtgtgcc attcttggat 60  
 ggccttgatt ntctcggggt ccacttggac cccatttcta ctaattacaa accctaagaa 120  
 aactatatta tcaacacaaa aggtacactt ctctatattt gcatagaggg tgtntttcct 180  
 aaggactgaa agaagttgcc taagatgtcc taagtgatta tctaggctcc tactgtgtc 240  
 taaaatatca tcaaaataaa aaactacaaa tctacctatg aaatccctta agacatgatg 300  
 cataagcctc ataaaggtgc ttggtgcatt agtaagccca aaaggcataa ctacttctct 360  
 atgcaaatat agagaagtgt acctntgtg tagataacta cttttcacac tactnttcaa 420  
 tngaaacttc ataact 436

<210> 10527  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10527

agctntaata taaagaatta tataaatata atttctctta tcatatgtat taattataaa 60  
 tcttcatatt atttaataata tattatgctc catattatat gacacgttaa aaagttatat 120  
 aagtcaatag aaatatctta ttgtgcgggg aaatttgaac aaaataacat tgtttttact 180  
 taaaaattgt caaaatcctt ttctctgtc ttattttttt tcttctatat ctgtattgtg 240  
 gaaagtatta tgaaaattgt acgcaaaaat taaagattat aaaacttaaa cttccaatac 300  
 ccgaaaaaaa agtctcgaac ttccatcata ttcataggaa aaaaaactag taatatattc 360  
 tagcattaaa aaaaggaaaa atgaagccaa aaaggaggaa gaatgtatat atattctaga 420  
 tcactttcta tatgggatcc a 441

<210> 10528  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10528

ngccgccaca gagntttctg actatgctct tgtgtggtgt aacatgtctc aaaaggagag 60  
 agcaagaaat gaagagccaa tggttgatac atgggcggag atgaaaagga tcatgatgaa 120

gcggtatgtg ccagctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180  
aggcaacaaa ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
gattgaagaa gatgaggagg taactagctc gggtttcttaa tggtttgact aatgatatcc 300  
gtgatattgt tgagttacag gagtntgttg aaatggatga tntgcttcac aaagcaatcc 360  
aagtagagca acaat 375

<210> 10529  
<211> 396  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10529

agctggtnrg atcaatatca agaaagttrrr cttatgtatt tattattctg ataatagttr 60  
atagctttaga agttattata ttatatatat aacttataaa ctcgtagcgt ttttcttttt 120  
cttccatttt tacattagta gtgtgataaa ctctattttt taataattct gtgcattatc 180  
ctttctaact gttttaatac acatccctac tattattgaa ttttcataac atattcgatc 240  
tttaciaata taaagagttr aaggttaata caaaatctaa aactatagtt gcctaagagt 300  
attntttttt atctactaac aaatagaatt tatactaaaa tttatataat gggcgaagca 360  
tatgccttga gtccatgcta ttatatctat attatt 396

<210> 10530  
<211> 466  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10530

agcttcatat gtttatgttt tctggccatt cacaccttat tattactatg cagntaccga 60  
tcgtccagaa acagcanaag aagctaccaa gttcttcatt attctgaaac aatattccgt 120  
caatgccgtg tgtgatattc ttgtttaaca agctcttgtr ttggttnttc ttttaataaaa 180  
aaggaaagtr ttttgaactc ttggaaactg aaaagcatat tatcacatct ccaaacta 240  
tgacttcaat caaattgata aaataaatat ttgattttga tttagttttt tagttaattn 300  
taaaaatcttt cgtttntaa tttataaatc aattcttttt ttagtcttaa taatttttat 360

actttttcgt attatatatg cattccagtg ttagtcttat attatatctt caaatatctt 420  
 caattatggt taaaataaaa tatgtgttcg tattatctct cataat 466

<210> 10531  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10531

aagctgcacc gatgaaacac agggaccacc gaggggggttc caaggagccg catgaaggcg 60  
 tgttcgangt ccttgccctct nggatcctcg tccagctcgt gcacggttgg gttcacaccc 120  
 atgccgcaga agagcctctg gatggcgtgg cacatgcagc acgtgctcac gctgaatatc 180  
 accaccgcgc tctccgacgc cagcctttct atgcgctcca gcggggtccc cactaccgcc 240  
 gccgccgct tccgaggggc cggcacgtag ctccccacc acgccgcgc cgctgcttgg 300  
 taatgcattc tcagaagaat tntatgtgat gaaagaatga cgcgcaaat gtatgataat 360  
 gagagtgaga atgtagtggg tttggcttgg tttgtttgtg tg 402

<210> 10532  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10532

agcttaaata taattataac agagaagaga gactgattat caataactaa cttaactaac 60  
 taatcataat ggactaatta agctaaacta actatggtaa taattctaac taaaactggt 120  
 tgtaatactc cccctcaagt taggtacata gatgtctaga aggcctaact tggacaaaaa 180  
 aaagagaatt tacagtgagg caatacctta gtgaagatgt agcaagttgt tgatgagtag 240  
 ataagtgtac cagcttgata aaaccagagt gcacatattg ccttatgaaa tgacaattag 300  
 tatctatgtg cttagaccta tcatttgaag ttggattntc agtcaatgca atagctgatt 360  
 taaattntat canaaataaa attaaaataa anatgtattt aagccttaca atttccaaca 420  
 agttttgaac taaatatgan agctatccta nattcattac ttcttatatt ctattataag 480  
 tgtcatat 488

<210> 10533  
 <211> 203  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10533

agcttatata tatcgatacy ctcgaaatta aacatcgta actctcacga aattcaaata 60  
 gtcataactn ttcacacgga tgtccgattc gggcgcataa tatgtcgaga ggctcgtaat 120  
 taaacaacgc aagctcttga gagattagac tggataact tttcacaccg aagctctcgt 180  
 gaaagtcaaa tggacataac ttt 203

<210> 10534  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10534

tccatttcaa cttggagcgt ctcgatatat tactgggtgtc aactgtacat ccgtgtataa 60  
 agttatgggc gtctcaatnt gtcagagct tctgttctaa aatttgagcg tctctaaata 120  
 ttacgggact caataagaca tctgagtaaa aagttattgt agtttgaatn tgctacgagc 180  
 tctcgttttc aacttgagc gtctcgatat ataacgggac tcaatcggac atccgtgtat 240  
 aaagttattg tcgtttgaat atgctacgag cttcagtttt caatttggag agtctcgata 300  
 tattactgga ctcaatcaga catccgagta aaaagtt 337

<210> 10535  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10535

agctttagtc aatatcaaac gagaataact ttatacacgg atgtccgaat gagtctcgta 60  
 atatatcgat acgctccaaa ttgaanacat aagcccgtag acaattcaaa ggacaataac 120  
 tttttactcg gatgtccgat agagtctcgt aatataatgg gacctccaaa ttgaaaatgg 180

aagctcctat caaattcaaa cgacaataac tntntgctcg gatgtccgat tgagtcccg 240  
aatatatcga gatgctcgaa attgaggaca caagctctga acaatattga acgacaataa 300  
atattattctc ggatgttcta ttgagtcccg taatatatcg tgctactcca gattgaaaat 360  
ggaagctcgt aggaaattca aacg 384

<210> 10536  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10536

agcttgaaga aaagactata tgaggtatct tccttgtgta tagcaatata tctaagggct 60  
actgtgtcta caacttgcaa gctaagaaac tcgtcatcag tcgagatgtt gaagttgatg 120  
agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180  
aactacctca agaagaagct gaggaagaag acccaggtga accacacaac aaaaagatca 240  
agatctatca tcaccagagt ctactccaag acgagtaaga tctttggtga acatatatga 300  
aacttgtaac ttggccatac ttgaacctgg aagctntgaa gaagcgtcac agcatgaagt 360  
atgggtcaag gcaatggaag aagagatata gatgatcgag aacaacaaca catgggagtt 420  
agtaaactcg 429

<210> 10537  
<211> 444  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10537

tactcagctt cacttntcgt tgataacctt gatgactcat atgcattcaa tctcatttcc 60  
tccagctcca agagttgtaa ctntcttnt tccctgata tagcctcatc aaaattcaga 120  
aatttcaaag cccggtatgc cttaagctct atttccaccg gtaagtggca ggcttttcca 180  
taaacaattt ggaacagaga caggcctata ggggtcttga agacagttct gtaggcccat 240  
agtgcacat ccagtttgct tgaccagtcc ttccaagtgg aagccacagt tttctccaat 300  
attttcttca attccctggg ggaaacttca gctnnggccca tttttttgtg ggtgataagg 360

tgaggccact ntgtgtgtgg catgatagtg gcttagcacc tttngcagtt atgctgggca 420  
 aaaataagaa gccgcatcac ttat 444

<210> 10538  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10538

gaagaatagc tctcanactt gtctccttgc aaaggaactt cctgttgggg gtgatcaang 60  
 gcataagaaa atcccttggg tcaaattgga agtaatatgt ctccctaagg aggatggggg 120  
 tcttgggggtc aaagatatct ccaaattcaa tacagctttg atgggtagat gggatatgggc 180  
 tctatcttct aatcataatc agctgtgggc caaaatttta ttgtcaaaat acgggggatg 240  
 gtctgatctt agtagtggga gggataaatc ttggcattct caatggtgga gggaccttcg 300  
 aaagatatat caacaacctg agctcagtat tattcaccag caaatggtat ggaaggtggg 360  
 aggaggggaa aaaataaatt ctggacagat attggtt 397

<210> 10539  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <400> 10539

tgacttgccc aatcttaaga gagaattttt tcaacaaggc gtaaagtfff tgatgataca 60  
 tgctctctca ttgtagatag tggttcatgt tgcaattggt gcagcacaag attagtctct 120  
 aagttgagcc ttgtatcac tccccatcca aagccttaca aacttcaatg gctcgatgag 180  
 caaggtgaga ggataatcaa tcaacaagtg aaagtgcctt tctccattgg aagatataag 240  
 gatgaagtga tttgcgatgt agttcctatg gaggcaggac accttctctt atgtaggcca 300  
 tgtcaatatg atatgaatat catctataat ggccgaaata tgagataccc tcagcccctg 360  
 gaataaagtt gtgtacatcc taacacttca cag 393

<210> 10540  
 <211> 278  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 10540

ctggaactat cttacatgga cttgatgggtg tctatgcaag tngaaagcct nggacgaaag 60  
aagtatgcct atgtgggtgt ggatgatttc tccagattta cctgngtcaa ctttatcaga 120  
gagaaatcat acacctctgc aactgtcaag cactttcaca tctttggaag tccatgttac 180  
attctggcng atagagagca aatgagaaag atggatccca agaacgatgc acgaatattc 240  
ctgcgatact ctacaaacag cagagcatat agagtatt 278

<210> 10541  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10541

gcttgaacac anaattggag atgaaagatc tatgggtcatc taggaggata ctcgggattg 60  
atattcatag ggataaagca aagggtgaac tattcttgtc ccaaagcaat tacctcaaaa 120  
aagtgggtgga gaggttttagg atgcatcaaa gcaaacctat tagcacacca cttgggtcatc 180  
atacaaagct atctgttatt caagcactag aaatagctga agagaggtct aaaatgaatc 240  
acacacccta tgccagtgggt gttggaagca taatgtatgg aatggtttgc agcagacctg 300  
acttatctca tgctgtaagt attataagta gattcatggg agatcctggc agcgcacact 360  
aagaagctgt gaagtggaca ctaaggatc taaatggat 399

<210> 10542  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10542

tctngacaat gtgtcttgca tactngctnt gagagaggaa tatgggtgtct ttcattctgct 60  
tcactaggag tcccagaaaa taagtcagct ctccaacaag actcatctca aattcagatt 120  
gcatctgttg gacaaaatgt cgaagcatct cattcgacat ccttccaaac acaatgtcat 180  
caacatatat ctgtgctatc atcaagtttt cagcatcttg cttgacaaag agagtcttgt 240

caattcctcc cttcctatac ccttgctgag taaggaactc tgtagcctt tcataccaag 300  
ctcttgagc ttgcttcaat ccatagagag ccttcttgag cctgtataca tgatctggat 360  
gag 363

<210> 10543  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 10543

agcttacctt gtgtgtcaag gtggtttgga gggtatgttc attgttttat ggaacgcaat 60  
gatctctggg tttgctagac atgctcgtgc accataggct atgatcttat ttgagaaaat 120  
gcagcaaaga ggctgttttc ctgatgatgt aacatatgtg tgtgtactaa atgcatgtag 180  
tcatatgggt ttgcatgaag aaggacagaa atatcttgat ctcatgggtca gacagcacia 240  
tctttcaccg agtgtccttc actactcatg tatgattgat attcttggtc gagcacgact 300  
tggtcacaag gcttatgact tgatagaaag aatgccattt aatgcaacta gttctatgtg 360  
gcgttcactt ctaggctctt gtaaaactta tggcaata 398

<210> 10544  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10544

cgtacttgta cttgctatng gcagaatata tgcattactt cttcctttcc aactcatcaa 60  
cgtgagtggg cattntattc tttttctata attacggggg taataagatg aaacaatagg 120  
gtgatgaaac gaataggggtg tcctctcact gcttgaagca tccaattttt atttttattt 180  
ttatggtaga acatattatc atatcttgga agcatcagct gtgactcggc taaaagctac 240  
cgcggtcttt gagccagatg ggcgccccaa atgcttgccg atgaactcac cggctaacat 300  
gagctttccg agatcaacgt nggttttcac cccaagtcca ttcagcatgt acacaacatc 360  
ttctgtagct acatttcctg aagctcctt ggcataagga cagccacctt gaccagcaac 420  
tgaagaatca actgcactga tccccatctg tttagaaaag aatcaataa cgtccattaa 480  
taacact 487

<210> 10545  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10545

agcttaacat cagaccactt ccagggtgct ggaactactt cacatggact tgatggggcc 60  
 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgctgtgg atgatttctc 120  
 cagatttacc tgcgtcaact ttatcagaga gaaatcagac acctttgaat attcaaagag 180  
 ttgagtctaa gacttcaaag agaagaagac tgtgtcatca agagaaatac gagtgaccat 240  
 ggcagagagt ttgaaaacag caagtttact gaattctgca catctgaagg cattactcat 300  
 gagttctctg cagccatcac accacaacan aatggcatag ttgaaaggaa aaataggact 360  
 ttgcaagaag ctgctagggt catgcttcat gccaaagaac ttccctataa tctctgggct 420  
 gaagccatga acacagcatg ctatatccac aacagagtca cact 464

<210> 10546  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10546

ctcgagatat tcaaattggc ataactnttc acttgcattg ntgattctcg cgcattcgtg 60  
 atcgagacgc tagaaataga acaacggaag ctctcgagaa attcaaattg ttataacttt 120  
 tcaactcgcat gtccgattca agcgtatata atattgagac gctcgaaatt gaacaacgaa 180  
 agctctcgag aaatctaaat ggtcataacc ttctactcgg atttccgatt caggtgcata 240  
 acatatcgag acgctaaaaa ttgaacaacg gaagctctcg agatattcaa atggtcataa 300  
 ctttttactc ggatgtccga ttcaggcgca cagcgtatcg agacgctaga aattaaacaa 360  
 tggaagctct cgaganatgc aaatgggtcat aacctttcac tcgcatg 407

<210> 10547  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10547

ctcaagagcc aagagagacc agtctatggt tgaaggcatg atattgttag acaagttgaa 60  
 gaattgtggt tggtagcaga tgttgtcatc cctccgaaat tcaaggtacc atattttgat 120  
 agatacaagg ggactacttg ccccaaaaat cacttgaaaa tgtattgccg gaaaatgggg 180  
 atgtattcta gggacaagaa gctattgatg catttcttcc aatatagttt ggccagagca 240  
 gtggtcatct ggtataccaa tctggaagct tctcgcatcc actcatggaa agatntgatt 300  
 actgctttca ttaggcagta ctaatataac actgacatgg ctcccgatag aaccagcta 360  
 tagaatatg 369

<210> 10548  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10548

taagcttaac atcagaccac ttacagggtg ctggaacttc ttacatggac ttgatggngc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
 ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
 agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt angagtgacc 240  
 atggcagaga gtttgaaaac ggcaagttta ctgaattctg cacatctgaa ggcacactc 300  
 atgagttctc tgcagccatc acaccacaac aaaatggcat agttgaaagg aaaaacagga 360  
 ctttgcaaga agctgccagg gtcatgcttc atgccaaga acttccctat aatctctggg 420  
 ctgaagccat gaacacagca tgctatatcc acaacagagt cacactta 468

<210> 10549  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10549

ctgagcanat acaaacgacg cataactttt actctgatgt ctaattgagg cgcgtaatat 60

atcgagacgc tcgacaatga atgttgaagc tctgagccaa tacaaacgac aatcactttt 120  
tactcggatg tctgattgag tcccgttaaca tatcgagacg ctcgaaattg aatgttgaag 180  
ctctgagcca attcatacga caatatactt ttactcggat gtctgattga gtcccgtaac 240  
atatcgagac gctcgaaatt gaatgttgaa tctctgagcc aactcaaacg accataactt 300  
ttttctcgga tgtctgatng agtcccgtaa catatcgaga c 341

<210> 10550  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10550

actaagctcg aaggtaacta gatgcctggt aacctggtta cccaactggc catgaatcan 60  
aaatctgcac ctgtcgccag actctgtagt ttatgctcct ctaccgacca ccacacagaa 120  
ccttgccctt ttgtgcaaca atctgaagca attgaacagc cttaaagctta tgctgcaaac 180  
atctacaata gacctcctca acctcagcag caaaatcagc cacaacagaa caattatgac 240  
ctctcccgca acaggtacaa tcccagggtg aggaggaatc atcccagcct tagatggctg 300  
aatccttcac aacaacagca ataacaacaa cagccttatt ttcagaatgc tactggccca 360  
agcagaccat acgttccttc accaatccag caacaacaac aacagcaaca accct 415

<210> 10551  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 10551

agcttgttct taatgagggg gattaggatt gactccatct tatgaaggat agattcccta 60  
ctaaaaggaa atccaagctt atccctagag gggatggacc ttttcaggtt ttggagagga 120  
tcaataacaa tgccatatagg ttggatctcc cagaagagta tggagtcagc accactttta 180  
acatttctga ttttaattcct tttgaatgtg gagctgatat tgaggaggag gaactaacag 240  
atttgaggtc atatcctctt caagggggag gggatgatga tatcctccct aggaagggat 300  
cagtcactag agccttgaga aagaggctcc aagaggattg ggctagagct gctgaagaag 360  
gccctatggt tctcatgaac ctcaatgtat atttat 396

<210> 10552  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10552

taacactgta tatngatttc tttagttggc atactatgtg ttcctttccc tcaactgaga 60  
 accccattgg ttggtccata caaacattct cctctaaatc tccattaaga aaggcgattt 120  
 tcacatccat ctgatgtagc tctaagtcac aatggggccac taatgccatg attatccnga 180  
 aagaatnctt tcgtgagacc gatgaaaaca tctctntata atcaatgtca tctntttgag 240  
 taaatccctt agcaacaaat ctagcctttg tacattcaag gtgccatgag agtcacgggt 300  
 ggtcttgaag acccacttac aaccaactct tctacaatcc tttggtaatt ctacaanggt 360  
 ccaaacacca ttatgttcca tggaatttat ct 392

<210> 10553  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10553

tgaaattcat caaagcctct tggagctcac tgaacgaaga tgtcgaaaga tttcttanga 60  
 agcttcatgt taatggagtg ttccctagag gtcgcaatgc atcaatcatc accttgatac 120  
 ctaagattga ggatccacaa aatctggggg atcttaggtc catttcactg gtaggatgta 180  
 tgtataaaat ccttgctaaa ttcttgcacg aataactaaa tgtgctttgg tagtgtgatt 240  
 gacaaaaagc aaatcgctt cttg 264

<210> 10554  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10554

tcagatggga caattagcta ctcaatngaa tcaacaacag tcccagaatt ctgacaagct 60

gccttctcaa gctgtccaaa acctcaaaaa tgtcagtgcc atttcattga ggtcgggaaa 120  
gcagtgtcaa ggacctcaac ccgtagcacc ttctcatct gcaaataaac ctgccaaact 180  
tcaactctatt ccagaaaaag gtgatgacaa aaatctacct aacaatttct gtgcaggtga 240  
atcttcttcc acaggtaatt ctgatttgca gaagcagcac attccccctc ttccattccc 300  
tccaagagca gtttccaaca aataaatgga agaggcagag aaagagatct tggaaacgtc 360  
tagaatagta gagggtaaca tacctctggt ggatgcaata aagcaaattc caagatatgc 420  
caaattcttg aaggagctgt gcactaat 448

<210> 10555  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10555

agcttctgga aagaactatt tggaatgtag atttacattc tatattaggt gcagaaagca 60  
aatatagagg tgcaagaagc aattgcctgc ataaaaacat tatgtgtagc ccactatacc 120  
actctattca gcctatctaa ggagagttat cccctgggga atactattca cccctacact 180  
aattgttggt gacccccaac atcattggga aattaccctt ctacccccca acttcaaaat 240  
tccttatccc tccctcttcc ctcttccttc ccttctctag cacctcttcc ccttctctct 300  
tctccatctt tgtcccaaac cgacgcctct taccctcttc tttctcttc tcgtatcgat 360  
gccccttct tntttcttc tccttcttcc tttctctcc ccaacccaac ctaaacgaac 420  
ccttttctt cttctcttc 439

<210> 10556  
<211> 502  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10556

gtcacctgcy gcatgcaagc ttccaagagt ngaagaggcg gttgacaaca gctccagtgt 60  
taattntgcc cgaccctaag agaccatttg aagtgtattg cgatgcaagc gggcaaggct 120  
tgtggtgtgt gttaatgcaa gagggaagag tagtggttta tgcttcacgc caattgcgct 180

ctcatgaagt taactatccg acccatgatt tggaactagc agctgtgggc tttgccttga 240  
agatttggag gcattattta tacggtactc gtnnttgaag ttttagtgat cacaagagtc 300  
tcaaatactt gttcgataag aaggaactca acatgaggca acgaagatgg atggagttca 360  
tcaaggatta tgattgtggc ctttcctacc atccaggaaa ggctaagtgt gtagccgacg 420  
cgctaagccg gaagtcctta catgtngcga actatgatga gttgggacag agattgatag 480  
aggaatttcg agatctgaat ct 502

<210> 10557  
<211> 390  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10557

taatcaagat aagtatgata agggtttctc aaatattgaa tagcacatga ttnttctcaa 60  
aatatgttta ccaaagagtt tttactctct ggtaatcgat taccatattg ttgtaatcga 120  
ttaccagtag caaatggat ttgaaaaagt tgtcaaattg aatttacaac gttccaatta 180  
ttttcaaaaa gctgtaatcg attacacata tttggtaatc gattactagt gcctttgaac 240  
attgaaattc aaattcaaat gtgaagagtc acatcttttc acataaaagc tttgtgtaat 300  
cgaatacact gatttcgtaa tcgattacca gtgactgttt ctgaataaat caaagatgt 360  
aactcttcaa aagggttttg aacttttcaa 390

<210> 10558  
<211> 475  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10558

tatcgtctta tatggacgta tcacttaaaa cacagacgct catatacaga tcatattctg 60  
ataatacata tatagataca acttttatca tttgtatttg tttgcatcta atacaaataa 120  
ttaggagtca ttatttctct ttaagacata aatgtatttt gagttaacat ttaccatttn 180  
ttataagaga aaaattttaa aattatcatc cacaaattta agataataag ttattaacaa 240  
taaattttaa aatattaaat atattattnt atgtcatttg aacaaaacac ttcaagaact 300



aaagcaaaat tataaatatg ataaaatgtg tctaaaataa actaacanaa accaaaatat 360  
agaatttata agaactatta aaagtaataa tttataagac caaaatanaa acaataaata 420  
cagggttaaaa tggttattaaa ctttatatat tgcattgcatt taataagaga aaaaa 475

<210> 10559

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10559

tcaagaaaat gatggcctca gcanattcct tatttctgga agcatatcca tagaanaacc 60  
tagagataga tggctctgaag aggatagaaa acgagtacaa tacaacttaa aagacaaaaa 120  
cataataaca tctgccctat gaatggatga atatttcagg gtttcaaatt gtaagagtgc 180  
taaagaaatg tgggacactc ttcgattaac acatgaagga actacagatg ttaaagatct 240  
atgataaatg cactaactca tgagtatgaa ttatntagaa tgaatgcaaa tgaaaatatt 300  
cagagtatgc aaaagagatt tacacatata gtaaatcatc tagcagcctt aggcaaagaa 360  
tttcaaaatg aggatcttat aaacaagggtg ttaagatggt taagtagaga atggcaccca 420  
aagtaactgc tattctgaat caagagattg tctacatg 458

<210> 10560

<211> 388

<212> DNA

<213> Glycine max

<400> 10560

agcttcgagc tcagcaggag ctacttgga ttctctgtat ttgaccaatt cctgaaaccg 60  
atcaacaatg aagagttcat tatcatcatc aatgaaacca atatctcctg tgtgtaacca 120  
tacttctctg cctatagtac tctctgtagc ctctgcgtca tttagatata ctgaccaacc 180  
agaaattgaa catatcaaga aactgtgatg gtgtttgttt gtaacatatt acctttgaca 240  
agacttacgc taattaaaat tatgcttgcg gagtcttaca tttattcttg tataatcaat 300  
tacacattct ataaccatt aataggcagg tgctcgtga tcagctactt cataaactgt 360  
ctattttcat gctataatga tgtgactc 388

<210> 10561  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10561

tataagaatt ccaaattcta caaggagaag accaagaagt tccatgatag tttgatagct 60  
 aagaaggact tcgtggttgg acaaaaagtt ttattgtaca actctatgct cgaactcatg 120  
 agtggttaagt tgagggtcaaa gtggattggg ccttttgtgg taactaatgt ttttacttat 180  
 ggtacagntg agatcaaaaag tgaatccaca gataagggtc tcaagggtcaa tggacaccgg 240  
 ctaagactat tcctcacaaa tccttcctta tatgatgtan gtggggagga gacctcctta 300  
 cttcacccta cttctctgtc gccatgactt nacggagttt ctttntctgt ctccttcttt 360  
 actattattg cactcgtcca aatttattga ttgttttgaa tgggtcttaat cttatga 417

<210> 10562  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 10562

ctctatgtgt ccttaatgga ggaatctaata cactattaga aaatactctt tcagcatcgg 60  
 ttatttagaa cattctacat cggttctaaa accgactttg aaagtgccga tgttgaatgt 120  
 atcaatgtta atatcggttt tgtaaaactg atgttaacat atatatgaca acatcggttc 180  
 tctgaatacc cgatgttaaa cacaatgaac aaaaaaaaaa aaagtgtacg catgatgaac 240  
 gttgacatcg gttttgcagt acaaccgatg ttaatatgtt atattaacat cggttggtta 300  
 gaaaaaccga tggttaatgta atatatcaag atcgggtctc tacgataacc gatggtaata 360  
 tattccatta acatcagtta ttcttaaaaa ccgatgacaa cggttatgat gcatacact 419

<210> 10563  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10563

agcttaagct ccttcaactg cacaaggctc ttaatanttg aagagtatcc ttgtggaacc 60

tttactcgac gaagacactg acaaaaaactt atcttctcct tcttggacaa agtatggcag 120  
gttgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180  
atatcagcta gatcttgacg ggtattcaag ccatccttcg tcttgccttg aatgttaagg 240  
agcgtcctaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
ctaattgtcaa gatcacacca gtatggaaga tcaaagaaaa tggacctctt cttccatatg 360  
caactctgac tnttatcctt ctcttgggtc ttcttaaata cagtattcag gtgctgaacc 420  
tgctgatata cctactcact agtcaacggt atcggatgaat atcatg 466

<210> 10564

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10564

tcaagaatta tggcctcatc aaactacttg tttcccgagg aaattctata aatagacctc 60  
ccatctntaa tggagtgggt taccactatt ggaaaaattg gaaaaccgcg atgcaaatat 120  
ttatagagggc aatagattta aatatctggg aagccataga acaaggacct tatgttccct 180  
ctatagtggc cggttgtgca acaatagaaa aacctagagc agattggatt gaggaagaaa 240  
gaagattagt acaatataat ttaaaggcca taaatattat tacatctgcc ctaggaatag 300  
atgaatactt tagggtttca aattgtaaaa gtgctaagga tatgtgggat accctacaag 360  
taacacatga aggcacaaca natgttaaaa gatctaggat aaacacatta actcgtg 417

<210> 10565

<211> 307

<212> DNA

<213> Glycine max

<400> 10565

acagtgacaa cgattgggct agagataaat atgatcggt aagtaccaat ggatttgtgt 60  
ttttcataag gaacacaacg ttcaattgga tgtcaaaaaa gtttccaata gtcactcttt 120  
cgacttgtga agcagaaaac ataacagctg cttcatgtgt tttccatgta gattggctca 180  
cgaatatgtt aaaagagttg ggcattgtcac aagaagagac aaccaagatt tttgtggata 240

ataagtcaac cattgctcta gcaaagaatc cagtgttcca tgatcgaagc aaacatattg 300  
 atacatg 307

<210> 10566  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10566

aagaaagcac tttatgggtt aaaaaaagca cctatgggtt ggtatgaaag attaatgaaa 60  
 ttcctattag taaaaaaatt cactcgaggg aaggtagata tcaccttatt cataaagaag 120  
 aaggataatg atatcttatc ggtacaaatt tatgttgatg atataatctt tggatctact 180  
 aatgaatcta tgtgcaagga gttttctatt gacatgcaaa gttagtgtga gatgtccatg 240  
 atgggtgaag ttaaatactt tcttgacta canatcanna caacaaatga tggga 295

<210> 10567  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <400> 10567

agctatatca ggaagttgat ggaattcttt gatgacatat cttttcatca cattctaaga 60  
 gaggaaaatc agatggctga cgcccttgcc actctagcgt ccatgttcaa agtaagcccg 120  
 cacggagatt tgtcgtacat caaatttaga tgccgtagtg agcctgcaca ttgcaatttg 180  
 atagaagaag aggaggatgg taagccttgg aacttcgata tcaaacgata catcgaagac 240  
 aaggaatacc cgcttgaggc ctctgacaac gacaaaagga cattacgaag gttggcggcc 300  
 ggtttcctcc ttagtggaat tatctgttac aagagaaacc atgacatggt gttgcttcgg 360  
 tgtgtcgatg taagagaggc cgaacaaatg ctaatagagg tgcacgaagg ggtcctttgt 420  
 atgcatgcca atggacat 438

<210> 10568  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 10568

agcttgccac catggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60  
agagagcaag aatgaagag ccaatgggtg atacatgggt ggagatgaaa aggatcatga 120  
caaagcggta tgtgccggct agttactcaa gggatttgaa attcaagcgc caaaaactaa 180  
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggtgtgctca tgattcaagc 240  
aaagattgaa gaagatgagg aggtaactat ggctcgattt cttaatgggt tgactaatga 300  
tatccgtgat attgttgagc tgcaggagtt tgttgaaatg gatgaattgc ttcacaaaagc 360  
aatccaagta gagcaacaat 380

<210> 10569

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10569

gtaagccaat tcatacgaca ataactttnt actcggatgt ctgattgagt cccgtaatat 60  
aacgaaacgc tcgaaattca atgtttaagc tttgagccaa ttctaacgat aataacttat 120  
tactcggatg tccgattgag tctcgtaata tatcgacacg ctcgaaattg aatgttgaag 180  
ctctgagcct attcaaacia caataacggt ttactcggat gtccgattca gtgacgtaat 240  
atatcgggac gctcggaatt gaatgttgaa cctctgagcc aactcacacg acaataacat 300  
tttactcgga tgtctgnatg agtcccgaaa tata 334

<210> 10570

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10570

agcttaaaca ttcaatttcg agcttctcgt tatattacgg gacacaatca gacatccgag 60  
taaaaagtta ttgtcgtttg aattggctcg taggttcaat attcaatttc aagcgtctcg 120  
atatattacc ggactcaatc agacatctaa gtaaaaagtt attatcgttt gaattggctc 180  
ataggttcaa cattcaactt cgagcgtctc gatatatattac gggactcaat cagacatccg 240

agtaaaaagt tattgccgtt tgaattggct catagggttc aacattcaat tcgagcgtct 300  
cgatatatta caggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgagttggc 360  
tcagaggttc aacattcaan ttcgagcctc ccgatatatt acggcactga atcggacatc 420  
cgag 424

<210> 10571  
<211> 386  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10571

agcttcaacc aaggggagat ggaccathtt tagtgcttga aagaatcaat gacaatgctt 60  
acaagttga gctgcccggg gagtataatg ttaattccac cttcaatgtc tctgatttat 120  
ctctttttga tgcagatgga gaatccgatt ngaggacaaa tccttctcaa gagggagaga 180  
atgatgagga catgttcaag agcaagggca aggatccact tgaaggactt ggaggaccta 240  
tgacaagggc tagagcaagg aaagccaagg aagctcttca acaagtgtg tccatactat 300  
ttgaatacaa gcccaagttt caaggagaaa agtccaaggc tgtgagttgt atcatggccc 360  
anatggagga ggactaaatg acacca 386

<210> 10572  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10572

tcccaagttt ttaagttctt cctcanaact gtcctaagca aagttcccaa agtcctatta 60  
acaacttccg tttgcccacg ggtttgtggg tacaagtggg tgaaaataac aatgtagtgc 120  
ccaacttgct ccacaaagtc ctccaaaaat ggcttaggaa cttagagtcc ctatcactaa 180  
caatgtctct tggcaaacca tggagtctca caatctcctt gaaaaacaaa tcagccacat 240  
gggaagcacc atcaattttt ttacatggaa taaaatgagc catttttagaa aacctatcaa 300  
caaccacaaa aatggaatct ctaccattgc ttggtttttg cagccccaaa acaaaatcca 360  
tggataaacc aatccaagga tactccgaaa ttggcaatgg agtatacaat ccatg 415

<210> 10573  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 10573

tgtagcatat tcaaacgacc ataactttta actcggatgt ctgattgagg cccgtaatat 60  
 atcgagacac tcgagattga caacacaagc tctgaggaaa tgcaaacgac tataactttt 120  
 tactcggatg tctgattgtg tcccgtagta tatcgtgacg ctcgaaattg aaaacataag 180  
 gtctgagcaa attcaaacga caataacttt ttactcagat gtccgattga gtcccgtaat 240  
 atatcgagat gcttcaaatt gaaaatagta gtccttagca aattcaaac ataataaatt 300  
 ttactcggga tgtccgattg agtcccgtag tgtatcgaga cactcgaaat cgaaaacaga 360  
 agctctgagc aaattcaaac gacattaact tttttctcgg atgtacgatt gtgtcactta 420  
 gtatatctag acgctcgcaa ctgaaaa 447

<210> 10574  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10574

cgacctgtcg gcatgcaagc tttcattttc attataagcg tctctatata ttacgggact 60  
 caatcggaca ttcgagaaaa atgttattat cgttagaatn tgctcagagc ttccgttttc 120  
 aattacgagt gtctcgatat attatgggat ttattcggac atccgagtaa aaagttattg 180  
 tcgtttgatt ttggtcagag cttctgttct gaattttgag cgtgttgata tactatggat 240  
 cacaatcgga cattcgaata aaaagttatc atcgntctaa tttgcttaga gcttttgtga 300  
 tgtgaacctg aggagaagca gatcgtttga tacatgctac ggaggttttg gtgatgccac 360  
 ttccaaagag ggaagaatag tcagggtaga cgccactttc aatg 404

<210> 10575  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10575

agcttctata ctntgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaaat 120  
ctatcttact ttntacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180  
tcaaatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240  
agagaaaatg caaactcagt tttatactgg ttgggccaca cccttggtgcc tacgtccagt 300  
ccccaagcaa cccgcttgag agttccacta acttgtaaact tccttttaca agttctaaac 360  
aca 363

<210> 10576

<211> 361

<212> DNA

<213> Glycine max

<400> 10576

tgtaatcgat tacatcattt gtgtaatcga ttactagtca caaaaatttt tatctcaagt 60  
ttgaagagtc acaactcttc agaaactaac tgtgtaatcg attaccacat ctatgtaac 120  
gattactatt aagaaatttt ctaagataac tctcaagagt cacaactgtt caagaagttg 180  
ttgaatgacc attatagacc tattactagg tgacttggga tacgaaagtc cttagagttt 240  
ttctgaataa cattgactta tcctctcaaa accaaattgt cttatcactc tcacaatatt 300  
ccttgaccca aacacgtacg aattcgataa cgaatctcga tcgatcttca tttgtatgtc 360  
a 361

<210> 10577

<211> 341

<212> DNA

<213> Glycine max

<400> 10577

taataaatct atatatgggtg tatagcaagc ttcccgttag tggtagctta agtgtcatgg 60  
gataatttct tcatttgggt ctgatgataa ccccatggat caatgcatat accacaaggt 120  
cagtgggagt aaaatatgtt ttcttgtttt atatgtagat gatattttac ttgcagccaa 180  
cgatcggagt ttgctacatg aggtgaaaca atatttctct aagaattttg acatgaagga 240



tatgggtgat gcatcttatg tcatcgccat taagattcat agagatagat ctcgaggtat 300  
 tttgggtcta tcataggaaa catatattaa caaaattcta g 341

<210> 10578  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10578

tctgataagg taaagatgat taggtaaaag ttgaaggtat cacaagatag acataaaagt 60  
 tactatgata aaaggagaaa actcgaatth caagaagaag atgtgttttt gaaagttaca 120  
 ttgataactg ggttgcgga acccttaagt tccgaaaact ctctcctaaa ttcattgggc 180  
 cctaccaaat tcttaaaaga gttgattcca ttgcatatca aattgtnta cctccaaatc 240  
 ttcacaatgt gttccacggt tctcaacttt tgaaatatgt ntttgattct tcccgtgcga 300  
 ttgaacctga tgtagtaca tt 322

<210> 10579  
 <211> 142  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10579

tctcgatata ttatgcgcct gaatctganc cccaattgaa aagttatgac catttgaatt 60  
 gctcgtgagc ttcggttgtt caatttcgag cgtctcgata tattatgcgc atgaatcgga 120  
 cctncaagtg aaagttatga cc 142

<210> 10580  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <400> 10580

tgaatccgag gccacatcat ggacttctct aacaacaata acatcattta ctgcactgaa 60  
 ttgttgggag ttggaagcca tcttcataat caaattccta gttcagcaa cggttatatc 120  
 accaagagct ccaccactgg tagcatcaat cataactccta tccatgttgc taagtacctc 180

atagaaatat cgaaaaacga gttgtcaga aatctggtgc gggggatagc ttgcacacaa 240  
 tttcttgaat ctttcccagt actcatacaa gctttctcca ctaagttgcc tgatgcttga 300  
 aatgtcattt ctgatggcag tggtcctaga tgcacggaag aatatctcca agaaccacct 360  
 c 361

<210> 10581  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10581

cgtgacacta tattgtactc attctagtca canaaggaaa caagttaaaa attattttca 60  
 aagtaaaaac gttgttttcta cttcaaaaact ctttgaacta cttcacatag acttatttgg 120  
 tccttccaga actatgagtt tgggtggtaa ttactatggc ttagtaatta tagatgatta 180  
 ttcaagactt tgcttttgaa aaccaaaaat gaagcttttg atgcttttcg caaacttgcc 240  
 aagggttattc aaaatgaaaa aggtcttaac attgtttcaa ttagaagtga tcatggagat 300  
 gaatttcaaa atgagtcctt tgaaaagttt tatgaagaaa atggaattca acacaatttt 360  
 ttttcccaa gaacacctca acaaatggg gttgtggaga ggaaaaatag atcccttgaa 420  
 gaaggagtta gaactcttct aaatgaaac 449

<210> 10582  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10582

gcttgtgcat ncatacctng atgaggatgt cccatatgtt cttaaaaactg gactgattca 60  
 tttgttcca aagtctcatg gccttgcagg tgaagaccg caciaacatt tgaaagaatt 120  
 tcacattgtc tgctccacca tgaaagcccc agatgtccaa gaggatcaca tatttctgaa 180  
 ggctnttctt cattcattat agggagtggc aaaggactgg ctgtattacc ttgctccaag 240  
 gtccatcacg agctgggatg accttaagag agtattctta gaanaaattt tccctgcttc 300  
 caggaccaca accatcagga aggatatctc aggtattaga caactcagtg gagagagcct 360

gtatgagtac tgggagagat t

381

<210> 10583

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10583

ttcaaaagtt ttaagcattg gatgattctt ataaagaatt agacggtnaa gtgtcttaag 60

tttaactata gcttggaatt ctgttctact gaattcaatg aattctatgg agatgaaggc 120

atagcgagac aacataatgt atgctatact ccacaacaaa atggagaata tgaaggaatg 180

aataagacct tgttggaag gatgagatgc atgctatcta attcatgatt gaatataagt 240

ttctaagttg aggcaatcaa cacaacatgc tatctcgtga attggcaacc aacactacca 300

caaacttcaa caccctatt gaggtatggt ttagaaaatt ggttgaatac tcaatgttga 360

gggaactgat tggacgagtc aaaaccattc gaagtagcct aaaaccacaa caccagaaa 420

gt 422

<210> 10584

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10584

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attatcttaa gaaagggggt tgaattaaaa tacaaaaact atccccttaa ttaaaaattt 120

aactttttta tattaaaaat gcaaccctta ttatgagtta ctctaagaac aattcanaac 180

aaacttcttt aaagcgaaat ataaacaata ataaataaaa gaagttaaag ggaagagaga 240

atacaaaactc aatttttata ctggttcagt cagccctat gcctacgtcc agtccccaag 300

caacatgctt gagatttcca ctatcttgta taaagccttt tacaaagttt gaaccacaca 360

gtagcaacco ttcccttggt ttcaaataac cttacaactt a 401

<210> 10585

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10585

tcttcaactc accaatgtca tctggtaatc tggacagact tacacaatct gagatgtcaa 60  
gacagcttag cttgttaagc cctttaacag aatctggcat ctctaccaa tcagagcaag 120  
aacatagcct tagcacttcc aaattctcca gcttcgcaat atcttgtggc aatgcagata 180  
gcctgtgaca gttagtata ctaagcttct tcaatggggg gatgttactc agcccatcgg 240  
gcaatttaac cagatcatta caatagtcaa tgctcatctc cacaagattt ggcatcgcac 300  
ctgagatttg gatagaacag ntttcaaaag cctgcctcgt attacacata tgaagggaca 360  
atcttcgcag attcttcaat atgc 384

<210> 10586

<211> 455

<212> DNA

<213> Glycine max

<400> 10586

tctgacccgg gttcctctca gtcacctgag gcatgcaagc ttgatacctt gcacacaagc 60  
aaacactaag cataatatct ggttgacttg cagttaagta aagaagtga ccaatcatac 120  
ctctatactt tgactcatcc attgatttac cgttttcatc taagtcaaga taagtgcgatg 180  
ttgtcattgg tgttgatgct tctttgcact ttttcatggt gaatttctta attagttatg 240  
tacaatatct tgtttgacat aggaagggtc catgtttcat ttgcttgact tgaagtccaa 300  
ggaagaagtt caattctccc atcatagaca tctcaaattc tttctgcatt agtactggaa 360  
aattccatac acgaagtttc attagtagca ccaaagatta tatcatcaac atacatttgc 420  
acaatgaaca actcatttgc taatctcttg ataac 455

<210> 10587

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10587

tgtgcattca atactctgat aagggtgttc catatgttct caagactgga ctaatacatt 60

ngctgcccac gtttcatggt cttgcagggtg aagatcctca taagcatctt aaggagttcc 120  
 atattgtttg ttccaccatg aagccgccgg atgtccaaga atatcatatc tttctaaagg 180  
 ctcttctcctca ttctctggag ggagtggcaa aagattgggt atactacctt gcccccaagt 240  
 ctatttttcag ttgggatgac cttaagaggg tgttcttggg gaaattattc cctgcatcta 300  
 tgaccactgc catcagagaa gacatttagg catcangcaa cttactggag aaaccatgta 360  
 tgagtactgt gaaagattc 379

<210> 10588  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10588

gcttgtgacc atttgaataa ctcaagagct tccattgttc aattntgagc gtcttgatat 60  
 attatgcgcc ttaatcggac ctgcgagtga aaagttatga ccatttgaat aactcaagag 120  
 cttccattgt tcaatttcga gcgtctcgat atattatgtg cctgaatctg acctccgtgt 180  
 gaaaagttat gaccatttga atttctcgag agcttccgtt gttcaatttc gagcgtctcg 240  
 atatcttatg cgctgaatc ggacctctga gtgaaaagtt atgaccattt gaattactca 300  
 agagcttcca ttgatcaatt acgagc 326

<210> 10589  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10589

atgaatggag ggagagggag aggtagagaa naagcactaa atttatgcct canataaggt 60  
 ctgaactntg aagtgttaatt ctcaaatgat caaagttgaa aaaatatata cacatgacct 120  
 ttattttatag cctaagtgtc acaaaaaaatt aaagggaaat ttgaacactt gaatttgaaa 180  
 ttgaatttgt ggagccaaaa tttcacaaat tgttgtgtat cctacattta aagatgcctg 240  
 ttttgcattg ggctttcttc aagatgataa ggaatatgtt gaagcaattt aagaagcaaa 300  
 aaattgggggt acaggtcatt actttataaa actttttgct acaatgctaa tcaca 355

<210> 10590  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 10590

tgatgatcga tacaacagtc aacagctgat aaagagaaag cataatagca ctgcaacgat 60  
 tcaacatgca ttgaaaagac acaagtttat tttccaccga cgctggtagt cttcgaacac 120  
 attgacattt tgttgacagt aacataccat gacgagattg caaagcaagg ccatatatat 180  
 aataacttgc atgggttggg agggatatcac actctaatta agggcacttg cgtctgccac 240  
 cgtgggtggt gagactggca taacagggac acacttcttg gttaccggaa gttcccggtg 300  
 gcacgcagtt gcagcgtctg cagcaagttc cacatgctct gtgacacatg cgttgacgag 360  
 atgctaaacg gcacctcgca gcacatgcag cattacaatc tgaaatcaat tcatcattca 420  
 agttagtaat tagttc 436

<210> 10591  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 10591

ctttaacccg cttctaaatg atatgttcgg aatgcagttt aagaagcaat tatcaattta 60  
 ataatgttct ttaaacaatg aagacaaaat ttattgcaat aataaatgag ataaggaaaag 120  
 agagaaaatgc caacttgatt tatactgggt cgaccacttc cgtgcctac gtccagtcct 180  
 taagcaaccc acttgagatt tttcactctc tttgtaaaaa tcctattaca aagtctgaac 240  
 cacacagggg caatccttcc cttgtgttca gcaattctta caacttaaga gaccctcggt 300  
 cctttaatca atctctttga aaagatgaag aagacaaact ctctctttat gagaaagata 360  
 ttac 364

<210> 10592  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10592

atgtgaagct cctgttntag cnttaccoga ttataactcat ccatttgaag ttgaatgtga 60  
 tgctagtgga gttggcattg gggctgtttt gatacaaaac aaaaggccta tagcttattt 120  
 ctcggagaaa ttgggaggag ccagattgaa ctattgcacc tatgacaaag agttctatgc 180  
 cattgtgaga gctcttgatc attggaatca ttatttgcgt tctaactact ttatattgca 240  
 ttcagatcat gagtcattga agtatatcaa tgggcagcag aagttgagtc caaggcatgc 300  
 taaatgggtt gaatttcttc aatcttttaa tttctcttca aaatacaagg atggtaagag 360  
 taatgtggtg gctgatgcac tttcaaggag gtatgctnta atttcaattc ttgaaactcg 420  
 tttacttg 428

<210> 10593  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10593

ttngaatcag tggaaagagg tatggacttg tcgtgggtcat ccactctaaa tggatatgtg 60  
 tcatgttcct agctcacaag gatgagtcct agtgccctct ttaaattttg taaaagattt 120  
 caaaatgata aaggagtatg cattacttca atcagaagag atcaaggggg agaatttgag 180  
 aatgaaaatt ttcaactgtt ctatgatgaa aatgttattc ttaataattt ttcaactcct 240  
 agaacatcaa tagaatgaaa tagttgaaag aaaaaacata tctttgcaag agatggccaa 300  
 catcatgctc aatgataatt taacccttaa gcacttctag gctaaagcaa tgaataccac 360  
 aacanaattt atataagggt aataacttaa aagactccat atgaattatg gaatgga 417

<210> 10594  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10594

ntgggctaata tcaaacgaca attatccttt gctcggtatg tctgattgag tcccgtaata 60  
 tattgagacg ctcgaaattg aattctgaac cttagagcta atgcaaacga caataacttt 120  
 ttactcgat gtctgattga gtcccgtaat ctattgagac gctcgaaatt gaattctgaa 180

ccttagagct aattcaaacg acaataactt tttactcgga tgtctgattg aatcccgtga 240  
 tacatcgaga cgctccaaat tgaatgttga agctcttagc atattcaaac gacaataact 300  
 ttttactccg atgtctgatt ggagtcgaa tacatcga 338

<210> 10595  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10595

agctgcatga ttacatctcc ctctttctca agaaaattct ttaatatca tcaaaatctt 60  
 catgatttac aaccctggat ggaggaatca ccctaattct agatgggtcca gccctcagca 120  
 acaacaacag cagcccgtc ctctctttca aaatgctgct ggcccaagca gaccatacat 180  
 ttctncacca gtccaacaac aacaacaacc ccagaaacag ccaacagttg aggccctcc 240  
 acaaccttcc ctggaagaac ttgtgaagca aatgactatt ccaaactgag cagttcaaca 300  
 agagacccaaa gctttcattc agagcttgac ttatcaaagc ggacaattag ctacacaatt 360  
 gaatcaacaa c 371

<210> 10596  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <400> 10596

ctattcccaa tggcaaatca cataacaaat ttttaagata ctgagcctca ctagtagcag 60  
 tatctaaagc aataatttct gtttccatgg tagaacgtgg aataatagtt tgtttagtag 120  
 atttccatga tactgcacca ccagctaaag taaaaacata accacttgct gattttgttt 180  
 catcagaata aaaaatccaa ttgcatcat taaaccctc aattactgta ggaaaacatg 240  
 tataatgaat gccataatta atgggttcctt ttaaaatact ctttctaagc caatccaatg 300  
 agaatgatta ggaatattat tataccttcc taatctacca actgcatata caatgccagg 360  
 cctagagaag tttgtcaaat gcaaaaaaga accaataatt tgagaatatt tatatgaaga 420  
 agttccttta ctc 433



<210> 10597  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10597  
  
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 ttatatttag actttgttgt ttttttttta ttattagaag taatctatgt gtcataattag 120  
 atgggttaga actaagtttc agttgtttat ataaataatg attgtttatg agtaaaaaat 180  
 attttcttat tattcaaaga gataatttaa gagttattta aaattatatc attaaaataa 240  
 aatatatgag ttgtttaatt ataatgtgat attgtagtaa ccaattaata tacgataaaa 300  
 aaactcagaa taaattactt aaattatacc caatggaaat gctattgggtg gtattgcaat 360  
 gatcttttta atcaaaatag agtaattata caaattattt at 402

<210> 10598  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10598  
  
 gcttctgaat gctctttcaa gtacttttta agccaatcaa acgaaacctg cgtgcaccac 60  
 aaattagata acgatatcaa tccatcagct aataattcta aagaggatat atattttttc 120  
 ttgtgatgac tttgaagttc taactatatg tacacttact tgattttctg ccaaccccat 180  
 ttgaataact cctgagggat tggctaattc agcatagggg ttctcatcat aggctttcca 240  
 cccacccaaa taacgggaat cttccccgtg agtttcataa actgcaactt ttgaaagctc 300  
 cacacagggg tgcctcatct caatacccat agctagctag cttcctggca aaagagttga 360  
 ttactcaatt acagaaagca gacagctgct gtgagtaaca caaagata 408

<210> 10599  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10599  
  
 agcttcgcaa aatttatttt tctggaagac caattactaa gtctctccta actagatgat 60

tgagatgatg catgtttatg tgtgctgtcc tacgatgcc caaccaagaa tcatttatct 120  
tacttaccaa acaactcagc tcatgaaatg atgcatgctc aatgtttaac atatagatat 180  
tacctattct cttgccaaata tggacaacct cactagacgt agattcacca ataagataac 240  
aattcttatt gaattcaatt ttgaagcctt tgtcacatag ttgactaatg ctcaggaggt 300  
tatgttgtag tccatccaca tatagaacat tctatatct 339

<210> 10600  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 10600

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aaatcctata ctactagaat ggccaaaaca caaggcccaa aagaaggaaa aacctattct 120  
gatatttaca aaaaagagtg gatccaacct tgacctatgg gctcaaaaat ctaccttaag 180  
gttcatgaga accctagggc attctttagt agctctagcc caatcctctt ggagtcttct 240  
atccaatacc cttggggggg aggattgcat cacaatcctc atctcctect ttctcggatt 300  
gagttattaa ttgctcaaaa tcaacatccg ggtcctcag 339

<210> 10601  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10601

atatatcatc atgtttatat ncttattatt gtaagaatga ccataatatc tgtatgtaaa 60  
ttaaactagt tntctagggt tctaaccata atatatgtat ttttcaaaac ttccatttca 120  
aagaaaataa tatntattat tntaagttca aaactcagag aggaaaaaat gcatgcaaac 180  
aaattcaaat aataagtatt ggctaaaata gttttattat gaaattaaat tctntaagga 240  
taaataaatt catttttcgg aatatttgat attttgaatt ttatttgatc cttannagta 300  
acattgtaac aataaaaata tatctttcaa agtttatg 338

<210> 10602

<211> 326  
 <212> DNA  
 <213> Glycine max

<400> 10602

agctttccag caactcctct ttgcacaagc cactcatgcg cgacaagact gtgctggtaa 60  
 ccggcgggagc cggttacatc ggcacccaca ccgtttcttca gctcttgctc ggaggttgca 120  
 gaaccgtcgt cgtcgacaat ctcgacaatt cctccgaggt ttctatccac cgagtcaggg 180  
 agcttgccgg cgaatttggg aacaacctct cctttcaciaa ggtgctcctc ctctttctat 240  
 tgcctgtttc attcaatttt gatttggtcg gtgccttttt ctcgtaaaca aagattattt 300  
 cgcttcgtgg cttgtgtttt tcggga 326

<210> 10603  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 10603

agcttaataa atctatatat gctttaaacc aaacctcctg ccagtgggtac cttatttttc 60  
 atgggataat ttcttcattt ggttttgatg aaaaccccat ggatcattgc atataccata 120  
 aggtcaatag gagtaaaata tgttttcttg ttttatatgt agatgatatt ttacttgctg 180  
 ccaatgatca aggtttgcta tataagggtga aacaatttct ctctaaattt tttgacatga 240  
 aggatatgga tgatgcatct tatgtcattg gcattaagat tcgtaaagtg atagacctta 300  
 aggtatttta tgtctatcac 320

<210> 10604  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10604

tatgcagggt gaaagccttt gaggaagag gtatgcctat gtgggtgtgg atgatttctc 60  
 cagatntacc tgngtcaact ntatcagaga gaaatcagac acctttgcaa ctgtcaagca 120  
 cttncacatc tntggaagtc catgtttacan tttggcagat agagagcaaa ggagaaagat 180  
 ggatcccaag agtgatgcag gaatattcct gngatactct acaaacagca gagcatatag 240

agtattcaat tccagaacca gaacagtgat ggaatccatc aatgtggttg ttgatgatct 300

<210> 10605  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <400> 10605

agctttgaga aaaatcaaac gacaataatt tttaactcgg atgtccgatt gagacccgta 60  
 atatatcgag acgctcctaa ttgaaaactg aagctctgag caaattttaa ggacaataaa 120  
 ttttcactct gatgtccgat tgtgtcccgat aggatatcga gacgctcgta attgaaaacg 180  
 gatgctctga gaaaaatcaa acgacaataa cttttaactc ggatgtccaa ttgagccgtg 240  
 taatatatcg agacgcctga aattgaaaac ggaagctcta tgaaaagtca aacgacaata 300  
 acttttaatt cggatgtctg attgagtcct gtaatatatc 340

<210> 10606  
 <211> 243  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10606

gattttctac tgccatgatt aggtcatctg tagttntagg agcctctntg tgttgtaatg 60  
 accgaatgac attaaagaag ccaagatcta agacgttaaa atctagcgag tttaggggtt 120  
 gagaaaccaa tcgaatgtca aaatcgcctt cactagcagc ttgatggaag tcgttgtcat 180  
 cttcatcaat gtgacatgga acattgtctt gttgtatgaa aatattttct cctctatctc 240  
 cta 243

<210> 10607  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <400> 10607

agcttttagtt cactgctttt atagtgcacg atatgcttcc agaggaaaac acattgtcta 60  
 aaagttacta tcaggcaaag aagatactat gtccgatggg tatggagtat cagaagattc 120

atgcttgccc gaatgattgc atattgtatt agacatgaat ttgaacaaat gtccaaatgc 180  
 cctaggcgtg gggatatcacg atacaaagtc aaggatgatg aggagtgtag tattgatgaa 240  
 aactcaaaga agggccccc agtgaagggtg ttgtgggtatc taccgatcgt tccaagggtt 300  
 aagcgtcctt ttgctaattg agacgacgct aaagacct 338

<210> 10608  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 10608

agcatccaca aactgctgtt ggcaattgac tcacaaatca tagcacggcc gagaatttgg 60  
 tcatgagaat caacacgaag acgagggtga ctaccaacac tccagacagg ttggatctca 120  
 tgggctagag catctatctg taactgccc cactccagg cagtcaccaa aatacaatct 180  
 gtgctgacta aattgtaaag aaaactaaca gcacgacctt cacattctgc actacgacca 240  
 actgaatctt cattcccatc ctgacctact cttcgcagag gtccctacaa aatcaaaaga 300  
 cataaagtag agtcataata tgtaacactg cc 332

<210> 10609  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10609

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 tcatgaagga acctccaaag tgaagatgtc cagattgcaa ctggttggtc caaaattcga 120  
 aaatctgaag atgaaggagg aagaatgtat tcatgacttc cacatgaaca ttcttgaaat 180  
 tgccaatgct tgcaactgct tgggagagaa gatgacagat gannagctgg tgagaaagat 240  
 cctcagatcc ttgcctaaga gattngacat gaaagtcact acaatagagg aggcccaaga 300  
 catttgcaac atgagagtag atgaactcat 330

<210> 10610  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 10610

tgcgtcnatt aacanatcca atatcatagt cattgcctta tcgcttaatc cacacaaaac 60  
ttttatatga tataatttga ttataaatc taattntgtg tacttgcttc cttcatacaa 120  
tgtttggtc cgcgccttta gaagctcata aaagccatta tgatcttctc ttggttcac 180  
atttactatt tcatcttcat ttagtggttg tgatgcacct acattagggc catgttgcc 240  
atattgttca natgcgtcat tgatcatcat ttccattggg ttntgagggt gaacaccact 300  
atcttganaa catcttca 318

<210> 10611  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10611

tactcagctt cgacatgata atggagacac atgaacagcg ctaggcaatg acattcatgg 60  
tgctccgaac aaaggcggag tatggaggat tggcttgatg gtccacactt angcaattat 120  
gaaactcagc tccaaactcg aaagtggagg acacacgaac aaccctaagc aagaacattc 180  
atgtggctcc gaaaaaggac gagaatggag gattgccttg agggctcctc cttaggcaat 240  
catgaaacac agctccaaac tcanaagtgg aggacacagc aacagcccta agcaagaaca 300  
ttcatgt 307

<210> 10612  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10612

gagagccatg agggcggact catgggccac tntngatag acaagaccct tgtcttactc 60  
annagaaagt tntattggcc ccatatgaag aaagatgtcc ataagcattg cactaagtgt 120  
gtggattggt tacaagccaa gtctagggtg atgcctcatg ggctatacac acccttacct 180  
atccctttct caccttnggt agacattagt atggactatg tccttnggct tcctagaacc 240

canagaggtg tagactctat ctttgtggtg gtggataggt ttagcaagat ggcacactnt 300  
 atatc 305

<210> 10613  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 10613

agcttgcttc tacaggggtga cctattggag gctcccaact tacttccaat gaaaggcctt 60  
 cttgttacia aatttgaaag caatgaaggt aagtaaattg tcaattacia aattataaaa 120  
 aggtcctcaa ttttgggtgtg tgttctttct ttgggtgattc actcaatttg gagtgtttct 180  
 tagcccaata gctcttaagg tgggtgaccc cttgcttctt gactcaaatt cttcaaggga 240  
 tgacatcaat cctcctttcc aattccctat atggcaactc acaaacaagg aaacaaagag 300  
 acaagaaata accaaagaca aaaaaaaaaa tg 332

<210> 10614  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10614

aagttattgt cgttttgaat tgctgagagc ttcaacattc aatttcgagc gtctcgatgt 60  
 attacgggac tcaatcagac atcggagtaa aaagttattg tcgtttgaat tagctcagag 120  
 attcagaatt caatttcgag cgtcccgatg tattacggga ctcaatcaga catctgagcg 180  
 aaaaagttat tgcngtttga atttgtgag agcttcaaca ttcaattctg agcgtctcga 240  
 tgtattacgg gactcaatca gacatccaag ataaaagt 278

<210> 10615  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 10615

agcttagagc taattcaaac gacaataact ttttactcgg atgtctgatt gagccccgta 60  
 atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtcctcg aaaatatcga gacgctcgaa attgaatggt 180  
gaagctctca gcaaattcaa acaacaataa cttttaactc ggatggctga ataagtcccg 240  
caatacatcg agacgctcaa aattgaatgt tgaagctctc agaaaattca aacgacaata 300  
acttttttcc ttagatgtct gattgagacc cgtaatatat 340

<210> 10616  
<211> 434  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10616

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gaggaagaga gggcacactc ccaacaaagg caaagactcc tttagccatt cccgggttgt 120  
gctctctctc ttctgtcaac atgagatata tcacatcact catcacagtc cattcccaac 180  
caccaataga acccttcaag acatgcattt ctactcgtga tcaagatcac cctgtccatt 240  
atgaacaata acaccatcat gcatgcattt ggataagacc atacatatat aataattata 300  
tggcangtgg acctttcgtg tatcaaaaca agcatatttc taattcttta naattgcttt 360  
ttccctactc tattcttggg ctacatatgt atatttatat tacccaataa ttaaatacat 420  
aactacagtt tatt 434

<210> 10617  
<211> 336  
<212> DNA  
<213> Glycine max  
<400> 10617

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aggacgctga tgcagatgct gagggtagca agatggaaga agttgattaa atctgactta 120  
attgcctgtt acgttttttag aaacaatgat tggagaaaca gtcttttttac tatgttttat 180  
gttttttgaa ttttcgaaat tttggaacgt tggctagtta ggtgccgtat gtagtagttt 240  
ctttatggta aatttgtgtc cgctccctgg ccaatgaatt tgtgctttct tcgtataatc 300  
gtgtatgctg attgcggaag tttcagttcg ggaatg 336



<210> 10618  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10618

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 ccccatcacc ataaccatg aatagaccct ntcttgatct angtagaccg tntccttcat 120  
 tgacatgata ataagcattg cagccaaata ctcttagggt tgagtagttt gttgttntgt 180  
 cattccagat ttcaatacga gttttaagtt ctatagtagt agaggatggt ctattgatca 240  
 gaaaacaggc tgtattgata gcttctcccc aaaaacttct gttgagacca gcattagaca 300  
 atangcatct tgttctttnc agaaagtgtt tggttcat 337

<210> 10619  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10619

agctttgaag ataaagaatc cagttatggt tttcaaagtg gatttcaaaa aggcctatga 60  
 ttctgtatct tgggtctttt tggactacat gttgataagg ttaggtttct atcctaaatg 120  
 gagaaaatgg attgctgctt gcctccaatc agcaaccatt tcaatcctag ttaattggaag 180  
 ccctacaaag gaattggccc cactagaggg tttgaggcaa ggggaccctt tagctccttt 240  
 gctttttaat atagtgggtg aagggtctac tggtagatg agagaggccc ttcataaaaa 300  
 cctttataga agctatccgg ttgggaagca aaa 333

<210> 10620  
 <211> 317  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10620

tatectgatg aggatgttcc atatgttctc aagactgtac taatacantt gctgccaag 60  
 tttcatgatc ttgcangtga agatcctcat aagcatctta aggagttcca tattgtctgt 120

tccaccatga natcccttga tgtccaagaa gatcatatct ttctaaaggc tnttctcat 180  
tctctagagg gagtggcgaa ggattggctg tactaccttg ctcccaagtc cattaccage 240  
tgggatgacc ttaagaaggt gttcttggat aaattcttcc ctgcatctan gaccactgcc 300  
atcagaaaag acatttc 317

<210> 10621  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 10621

agcttgtaat ctattacaca tatactgtaa tcgattacca gagcagattt tcagaaaata 60  
ttctcaacag tcacatcttt ttatgtggtt cttgaatggc tatcaaaggc ctatatatat 120  
gtgacttgag acacgaattt gctaagagtt tttcagaaca aaaaggtctt atcctcttat 180  
aaagaaaaat cgttttatcc tcttacaat tccttggcca aattacttgt gattcaataa 240  
ggaattattt gagtgtcaa attgttcaat ctatctcttt caagagagat ttcttcttct 300  
cttcttcttc attctgaaaa gggattaaga ga 332

<210> 10622  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10622

ctcgcaggta gccatgagtn gtgatatgaa cctggcgatg tagttcaagt gcccgaagaa 60  
accncagact tgctgtnctg tgcattggctc tggcatttcg aggatggcct taactttntc 120  
ggngtcaacc tctatccctt ttgggtcac gatgaaaccc aatattnttc ccgatttgac 180  
cccagagtg cacttggctg ggttcaacct tagtcggtac ttccgtgacc tcttgaacaa 240  
ctttcgtaag atgacgagat gttcttcttc agttntgaac ttggcaatca tatcgtccac 300  
gtacacttcg atatcttgat gcacatatac atggaa 336

<210> 10623  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 10623

agcttaagct ctttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60  
ttcacccgat gaagacactg acaaaaactt atcttctcct ttttggacaa agtatgacaa 120  
gttgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtatccac 180  
atctctgcta gattttgacg agtattcaag ccattcctcg tcttgcccta aatgttaagg 240  
agcgtcccaa tcacactgtc acatacattt ttctcgacat gcataacatc aatacaatgt 300  
ctaacatcta gatcagacca ctacggaaga tcaaagaaag 340

<210> 10624

<211> 338

<212> DNA

<213> Glycine max

<400> 10624

agcttatgct gcaaacattt ataatagacc tcctcagcag caaaaccagc aacaacagaa 60  
taattatgat ctttcaagca acagatacaa tctaggttgg aggaatcatc caaatctgag 120  
atggacaagt cctccataat aacaacagcc tttccctctt ttccagaatg ttgctggtcc 180  
aagcaagcca tatgttcttc ctccaatgca gcagcagtca taacaaagac aacctacaac 240  
tgaggctcct cctcaacctt ccttagaaga gttagtggag caaatgacca tccagaatat 300  
gcaatttcag caagagacaa gagcttccat tcagagtc 338

<210> 10625

<211> 331

<212> DNA

<213> Glycine max

<400> 10625

agcttatgct gaaaatattt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60  
gcagagcaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcacgtaa 120  
cctcagatgg tgcagccctc agcaacaaca acagcagctt gctccttctt tccaaaatgt 180  
tgttggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
acaaccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
tatgcaaaac atgcagtttc agcaagagac c 331

<210> 10626  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 10626

agcttaagct ccttcaacta cacaagactc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttcacccgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120  
 gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180  
 atatgagcta gatcttgacg ggtattcaag ccatccttcg tcttgccttg aatgttaagg 240  
 agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300  
 ctaacgtcaa gatcacacca gtacggaaga tcaaag 336

<210> 10627  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10627

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 gaatntctcg agagctttgg ttgttcaatt tcgagtgtct cgatatatta tgcacctgaa 120  
 tcggattgtc gagagacaag ttatgaccat ntgaatttct cgacagcttc cgggtgttcga 180  
 tttctagctt ctccatatat tatgcgcctg aatctgactt ccgtgtgaca aagcatgacc 240  
 atnggaactt gtcgagggtc tccgatgtgc gatatggagc atctcgatat actatgtgct 300  
 tcaattggac a 311

<210> 10628  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 10628

agcttctcga tatattatgc gcttgaatca gacttccgtt acaaaaagta tgaccatatg 60  
 aatttctcga tatattatgc gcttgaattg gactttcgtg tggcaagta tgtccattcg 120

aattcttcga gaggacccgt tgctcgatca ctacggttcg tgatatatta tgcgtccgaa 180  
 ttggacgcgc tactgaatgg gtatgaccac ttgaatttct tgagagcctt ttgtgaaaaa 240  
 tatgctgcgt cttgatcttg tatgggcctg 270

<210> 10629  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 10629

agcttgtaat caattacaca catactgtaa tcgattacca gaggagattt tcagaaaata 60  
 ttctcaacaa tcacatcttt tcatttggtt cttgaatggc catcaatggc ctatatatat 120  
 gtgacttgag acacgaattt gccaaagatt tttcagaaca acaagtgttt attctctcaa 180  
 aaaaagcaaa atcgttttat cctcttaaga attccttggc caattcaatt gcaattcatt 240  
 aaggaatcat ttgagcgctc agattgtaaa atctatctct ttcaagatag attcattctt 300  
 cttctctttc taattcacta agggg 325

<210> 10630  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10630

tgacattcat ggtgctccga acaaagggtgg agtatggagg attgccttga tgggtccgcac 60  
 ttangcaatc atgaaactca gctccaaact cgaaagtggg gaacacatga acagccctaa 120  
 gcaataacat tcacgtggct ccggaacagg atgagaatgg acgattgcct tgaggggtcct 180  
 ctcttaggca atcatggaac acagctccag actcaaaagt ggagaacaca tgaacagctc 240  
 taagcaataa cattcatgtg gcttcagaca atgatgagaa tggacgattg cctngaacgt 300  
 cctctcttag gcaatcatgg aataca 326

<210> 10631  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 10631

cagaagctca cgagatacta caatgggtctt aacatgtcac acggaagtcc tattcaggtg 60  
cataatatat cgagacgctc gaaatagaac atcgggaagct ctcgagaaat tccaatggtc 120  
ataacttttc acacggaagt ccgattcagg cgcataatat atcgagaagc tggaaattga 180  
acaacgaaag ctctcgagaa actcatatgg tcataacttg tcacacggac atccgattca 240  
tgcgcataat atatcgagac gctcgacatt gaacaacgta tg 282

<210> 10632  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 10632

agcttgaaat tgaacaacgg aagctctcga gaaattcaaa tgtgtcataa cttatcacac 60  
ggaagtccga ttcaggcgca taatatatcc agacgctcga aattgaacaa cgaaagctct 120  
cgagaaaattc aaatgggtcat aacttgtcac acggaagtcc gatttcggcg catattatat 180  
cgagacgctc gaaattgaac aacggaagat ctggagaaat tcaaattggc ataacttatc 240  
acacggagggt ccgattccgg cgcataatat atcgagacgc tcataattga acatcgaaag 300  
ctctcgagaa attcatatgg tcataacttg tcacacgaaa gcccgattca ggcgcataat 360  
atatcgagac gctcgaaatt gaacaacgga agctctcaag aaattcaatg gtctaacttt 420  
c 421

<210> 10633  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 10633

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caacagggttg gctacttttg agaaatcttt tatgaatcgc ctgtagaacc ctgcatgtcc 120  
taagaaactt cttatttcct tgacattcag gggaggaggt agttttctcaa ttacattgtc 180  
cacctctttc cctcttactt gaaatttatg cccaacact atttcttctt gaaccatgaa 240  
atgacatttt ctccaattga gaactagatt agattcttca ca 282

<210> 10634  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 10634

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 aacaatggca agtgggtaac cccacaaat tttcacaatg gatctacca gaggtcttaa 120  
 atcagacggg cattcttccc ctctaaaaat ctcttttgag aagagttccc agctttcatc 180  
 ttcattgagg atgggaaggt agtatggaga cgcagttcca gcatagtgtg ccacctcttt 240  
 gttgcgactt gttatgagaa ttctactacc tggttggtca tctggaaagg ctctttaac 300  
 ctcatcccat acttgggttt ccagatgtc atcaagcact accagatact tcttcccttt 360  
 aaccattctg ctaccttttc ttagtttacc tcaact 395

<210> 10635  
 <211> 238  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10635

catataaact gaatcctatg cacccttaag gacttattct aaatatcagc tgactgatca 60  
 ttagagntaa tgaactcagt ggccatctct ttggacaata gctttctccg aataaagtga 120  
 tagtcaatct ctatgtgctt ggtcctctca tggaagactg ggttttgagc acatgtgaag 180  
 agcaaccttg attatcacia tataacttca tttgcatcac tttgcagaat ttcaactc 238

<210> 10636  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10636

gagcacgctg gacttcacag cgtacctagg agggccgtag ttgaagagcc ccaccacacc 60  
 gcgatagatc ttgaacgacg ggatgtggaa gagccgtcat tccaggtgtg ttcaccactg 120  
 atgccttggt gctgtcgaac acgccctgga gggagatcca tggaggtttt cgagagctcc 180  
 anggagttgg ttgttgattg tgttctacat catacgcatt tggttcatga ggaatcggtg 240

atcgtgcaag atata

255

<210> 10637  
<211> 303  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10637

cgagctaacc cttgcatttt tttgaggtat tttgctacct aaacatgtgt atatTTTTgt 60  
gagatatttt tgctatatac atgcatatcc gaggtatctt gctacctaaa catacatgta 120  
tatattgtga ggtattttgc tatatacatg catatccaag gtatcttgct acctaaacat 180  
acatatatat atnttgtgag gtatcttntt gttatctaaa ttacatacat gcatatctaa 240  
ggtattttca ctacctaaac acacatgcat atattntgtg aggcattgact accttccgag 300  
ctt 303

<210> 10638  
<211> 472  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10638

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ctaaaacacc acaacaaaat ggtgtatcag aaaggcgtaa tagaacttta atggatatga 120  
ttaggagtat gttaatcaat tcaactttac tcgtattttt gtggatgtat gccttgaaaa 180  
ctgccatgta tttgttgaat agggttccta gtaaggcagt tccaaagaca ccttttgaac 240  
tgtggatgaa taggacacct agtataaggc acatgcatgt ttgggggttg cagacagaaa 300  
taaggattta taatccgcaa gaaagataat tggatgcaag aacaatcagt gaatatttca 360  
ttggttatcc aaaaaagtca tggggtatat gtntttttgt cctaatacata gtatgagaat 420  
ngttgaaact ggaaatgcat gtttactgaa aatggtgaaa ttagtgggag ta 472

<210> 10639  
<211> 341  
<212> DNA  
<213> Glycine max



<223>       unsure at all n locations  
<400>       10639

tgtaggccta ggatcttctt catcaatgga ttcctttgct tcttgganaa tgaatggcag   60  
cggaatggag aaggaagaga gagagagaga ggagacgcca cttcaaggag aagatgagtc   120  
tagaagaagc tcaccaccat aagaggccat ggataagagc ttgggggaag aaggagatga   180  
atgaaggagag agggagagaa gagcacgaaa ttntgtgctc caaatgagct ttgaaatctg   240  
aattntaata ttcaaagatg caaagttgaa aaaaatgcac acacatgacc tctatntata   300  
gcctaagtgt cacacanaat tggagggaaa ttcaaatttc a                       341

<210>       10640  
<211>       390  
<212>       DNA  
<213>       Glycine max

<223>       unsure at all n locations  
<400>       10640

ngctaagggt aaaccatact cgtgctcttc attgcactcc aaaggatatt gatgcaagca   60  
cctcagctag tggacttggg tattgggtca ttogtctctg atccacgttc tgaggtctac   120  
aataatatga agaacgccat cttatagtgc atgttaataa ccagtttgtc atgatttttc   180  
tgggtttatc ctcactgcct tagagcttta tatcctgttt gcatgaactt aacaaccttg   240  
aacctgaagt ttgcagcagg aattcanaac acagagctaa taacactaat atgctgctgt   300  
gggaaacttc agcgtttatc ggaatatata ccaacctaag tctcttttca tctatgttcg   360  
tatgctgttg aatatctata attgctatac                                       390

<210>       10641  
<211>       371  
<212>       DNA  
<213>       Glycine max

<223>       unsure at all n locations  
<400>       10641

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tggcgctaaa ctgctgggag ttggaggcca tcttctcata ttaaattttg gcttcagcag   120  
gagtcatgtc tctaagggtc ccaccactgg cagcatctat catacttctc tccatattac   180

tgagtccttc ataaaaatat tggagaagaa gttgttctga aatctgatgg tggggcaact 240  
ggcacatagt ttcttaaate tctcccagta ctcatagagg ctctctccac tgagttgtct 300  
aatacctgag atatccttct tgatggctgt ggtcctggaa gcanggaaaa ttttttctaa 360  
gaatactctc t 371

<210> 10642  
<211> 338  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10642

tatgctgcan natattacca atagacctct aacctagca gctaaatcca ccatagcaga 60  
acaattatga cctctccagc aacagatata acctggatg gaggaatcac cctaacctca 120  
aatggtccaa cccttagcaa gagaccagag cctncattca gagcttaacc aatcagatgg 180  
gacaattggc taccgaattg aatcaacaac agtcccaaaa ttctgacaag ctgccttctc 240  
aagctgtcca aaatcccaaa aatgtcagtg ccatctcatt gaggtcggga aagcaatgtc 300  
aaggacctca acctgtagca ccttctcat ctacaaat 338

<210> 10643  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10643

cggaagctct cgagatatca aatggttata tctnttact tggaggtcca attcacgcgc 60  
ataatatatc gagacgctca aaattgaaca aggaaagcta tcgagaaatt caaatgatca 120  
taacttttca catggaggtc agattcaggc gcataatata tcgagatgct cgaaattgaa 180  
caatggaagc tctcgagaaa ttcaaatggt cataactnta cactcggagg tccgattcag 240  
gagcataata tatcgagacg ctcgaaattg aacaatggaa gctcttgagc aattcaaatg 300  
gtcttaactt ttcactcgga ggtccgattc aggcgcataa tatatcgaga cgctcgatat 360  
tgaacaatgg aagctcttga gcaattcaaa tggtcataac ttctcaattg gatgtgcgat 420  
tctggcgcat aatata 436

<210> 10644  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<400> 10644

gcctcttacg tctggtttat gaatgtagca tatagatcca aagaccctta cgtagcttgc 60  
 tgatggcttc ttcccgttcc aagcttcaat tggagtcttg tctcttacag acttagttgg 120  
 acatactgtg agtatgtaaa cagcaatcgt aactgctaca gcccagaatg tgtaggtag 180  
 taccttttcc ttgagcatcg aactaaccat cttcataact gtgtgactct ttctctcaga 240  
 cacttcattt tgttgaggag aatatgcgac tgtaagttgt ctcttatagc cttcatgctc 300  
 acaaaaactt 310

<210> 10645  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10645

gggttgatgc gttctgtctc gtagaatggc attatcacta gctgacatgt tctcaattag 60  
 ctcagggtgt tcttctagga tcttcagttt tatctttccc cctgcagaag catctaacag 120  
 ttgcttggtt tatgggtctca gcccatctat aaacatattc aattgaattg gctcagaaaa 180  
 cccatgggtg ggagttcttc tcaataaacc tttgaacctc tccaatgctt cactcagaga 240  
 ttcatcangg aactgatgaa atgaaggcat tgcagctttc cttcttatag tctntgactn 300  
 tgggaagtat ttctttanga acttttcaat aactctt 337

<210> 10646  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10646

agctnttcac tcggatgtcc gattccggag ttattatatt gagacgctcg aaattgagca 60  
 acggaagctc ttgagaaatt caaatgggtc taactttcca catggatgtc tgattaagac 120

gcataatata tcaagatggt cgaaattgaa caacgaaagc tctcgagaaa ttcaaatagt 180  
 cataactttt tactcgagg tccgattcat gcgcataata tatcaggacg gtcgaaattg 240  
 aacaacgaaa gttcttgaga aattcaaag gtcataactt ttaacccgga taaccgattt 300  
 agaaacatca catatagaga agctcgaaat tgaacaacgg aagctctcga gaagtttaaa 360  
 tggttaatac ttttcacgga ggtccattcg ggcgataata tate 404

<210> 10647  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10647

gctcgacaaa tggaagcaca gatgtctttc tatgggaggc aggatatccc tcatcaattc 60  
 tgtcttaaca gccctcccta tctaccttct ctcttttttt agaatcccta aaaaagtgg 120  
 gcataaggta gtttctattc agaggaaactt tttgtgggga ggaggttctg aggcagccaa 180  
 gataccgtgg gttaaattggg atattgtttg tcttcccaag aataaaggag ggctggggat 240  
 taaagatatg tocaagttta atgaggcctt gattgggtcaa tggggatggg actatgctaa 300  
 taaccanaat cagctntggg ctatagtttt gatgtccaaa tatgggtgtgt ggaatgcttt 360  
 atgctatgga agaaacagtg cagactgctc cccttggtgg aaggatctta gagctgtttt 420  
 ccagccacag catagtaaca gtttcatcaa taacatg 457

<210> 10648  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10648

tctcgcgcac ttctccgtgt tctcgcaa at cgaagaaagt tcgttagggg ttgataaaca 60  
 aacaggaaag tcgaaagggt ttgctttatt tggtttataag tctcccaggg gtgctcaggc 120  
 cgcattgata gatcctgtga agactgtgga agggaggcag ttgagttgta agttggcgat 180  
 tactgatggg aagcagggaa agcgggtagg gccggactct gcccaggccc atcacgggaa 240  
 tgttcagcac gggcatggag atggagtggg ggcgggaatg gngatgcctc ctaatgcggg 300

gtccgggcct gtgcagtatg gtggacctgg acagtatggg cccccggttg ggat 354

<210> 10649  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10649

agctngcatt ntgtggaaga ttaaactctt gttagggtat attagagcac ctactgtgc 60  
 tattaacatc aaaccaagta aatattatac ccttgcaaag gatagtttag tacaccctcg 120  
 gtgaaataga tccaactaca ataccacaac attaaacaat aataaagaat ttaacttgga 180  
 ataagaaaac actcatgaaa tgattagatc attatagccc agtaaagggc cccaagatca 240  
 acggtttcaa aaaaactgta cacgatctca tccacaaaat atttttactc acaaaatttt 300  
 aaaaagaaga tataaacaaa acaactaaa aatagagagt taggggggtat attgaattaa 360  
 gattntaaaa aactatttta acataaaaaa acttgtggag tttaaagaat atgtaggaat 420  
 attatgactt atcagattnt ntacaagact tttatgata 459

<210> 10650  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <400> 10650

agcttttaca ttcaattgca agcttttcga tatattacgg gactcaatcg gacatccgag 60  
 taaaaagtta ttgtagtttg aatctgctca gggcttcggg attccatttc gagcgtctcg 120  
 atatatcacg ggactcgatc ggacatcaga gtaaaaagtt attgtcgctt gaattagctc 180  
 agagcttctg caattcattt cgagcatctc gatataattac gggactcgat cagacatccg 240  
 agtaaaaagt gattgccgtt tcaatctgct cagggttctt gaatgacatt tcgagcgtct 300  
 cgatgtatta cgggactcaa tcagacatac tgataaacag ttattgtcgg ttgaatttgc 360  
 tcagagcttc t 371

<210> 10651  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 10651

agcttcccag atccgctcat ggaatgactt ggcaactgcc ttcattaggc agtaccagta 60  
caatacggac atggcccccg atcagaacca gctccagggt atgactaaac gagagcatga 120  
gtccattaag gagtatgcc agagatggag agatctcgca gcccaaaagg gcatctccgg 180  
atgtattgcc ggaagatggg ggcgtattct gcggacgaaa agttgttggt ccatttcttt 240  
caagacagct tggccggggc agctgtagca tggatatacca atctggaagc ttcccagatc 300  
cgctcatgga aggacttggc aactgccttc attatgcagt accagtacaa tacggacatg 360  
gccccgatc ggaaccagct ccagggtatg actaaacgag agcatgagtc cattaatgag 420  
tatgcccaga gatggagaga tct 443

<210> 10652

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10652

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agaggatggc gcctcctctc acctcttctc ctttgtcttc cgctgcatct ccatggtgga 120  
aaatcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagctccaca 180  
agcaagcttc catcacaacc cctaagcact tttgggocaa agcagtgaat actgcatggt 240  
atcttcaaaa caaaatttac ataagaccta tccctaaaat gaatttgtat gaagtatgga 300  
aggaatgaaa acccaacata taatattttc ttccatttgg atgcaaagt ttcatctca 360  
acacaaagga taacctgnga gaaattgact agaaaagtga taatgggata tttcttagat 420  
actctaaaac ttctaggaca ttcaaagttt acaactcaag aacctt 466

<210> 10653

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10653

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atttaacaca acaatatgaa ggatgaaact caaagaaaca gctattatct cgagtgaatt 120  
tactaacact aagtaaattt ttggtaaggg agggaaactag caataaattt ttaagggaga 180  
gagtagtggt tggaaaatag ggggacctaa acagatttga gcctatggaa gagattcttg 240  
tacctgtgcc attagccatt aggatatgtt catttcctgc agctgtactg ctctgaagga 300  
gattatgtgg atcattgggt gcatggngtg aagcacctga atctggaaac caagcctgag 360  
aaatgttagc ag 372

<210> 10654  
<211> 339  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10654

attcaaaactc ggaaattcaa gaagattcct tgattttctaa agtgtataag attaagatga 60  
tcatagacca ttcccttttc ttggatctca ctcaattatc aagtgcgggt gtaccatcta 120  
atgggttcaact tgatgatgag tggaagtttg attttctctgt gtctgatgcc ccccgatgg 180  
tttgaccaa ccaagcagat atgatcgga ggctttcttg ctgttcattg gcattngaatt 240  
gtcgcacat gcaactattg attatgcgca tctactccc tagatcttcc aaccttgac 300  
aagtgtctga ggaagaattg ataatcatgt gggttttct 339

<210> 10655  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10655

aaaataactt aatgccatta acctagggaa ttaaaaaaaaa aacttaatgg ctgagtgtaa 60  
ctgaaattgt ggcaaccaa agtcaccccc aacagccaac aagtcagcca ccatttggtc 120  
tcccaaaagg ctgatgcta gtgatgcaat cctaccttgc aagggcattg gatataaaac 180  
ttgaagtaga ttggggccaga gatgcaagag aaggccctag gggttcttatg agccttaggg 240  
tagatttcgg gcccatgggc taagtacgag cccacttata tttgtaaata ttagattaag 300  
gtttcaatta ttttgggcct cgtatttagg gctccataat ttaggtaggg taccctagan 360

atataggact ttcagccctt gtattttagg gcacctagac tatgttttga tt 412

<210> 10656  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10656

cgcttaatc taacttccgt gtgagaagta tgaccatttg aatttctcaa gagctttctt 60  
 tgttcaactt tgaacgtctc gatttgtgat tcgcccgaat cggacatccg tgtcaaattg 120  
 tatgacccat tggatntcta aagagctttc gttgttcaat ttcgagcctc tcgacatatt 180  
 atgcgcccga atcggggcatc cgtgtgaaaa cttatggcca tttgaatttc tcaagaagtt 240  
 ccgatgttaa tttcgagcgt atcgatatat nataagcctg aatcgga 287

<210> 10657  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10657

agcttataga atatataata aaagaacaat gacaattgaa gagtctatac atgtttcctt 60  
 tgatgagtct aatgccattc ttccaaggaa ggatttttta gatgatattt cagattcctt 120  
 agaagataca catattcatg gaaataactc taaagaaaaa gatgaaggaa gcaatgaaga 180  
 ttctcaagat aatggggcta gaggaaataa tgaacttcca agagaatgga aagcctcaag 240  
 agatcatccc ctgcacaaca ttattgggtga tatatcaaaa ggggtaacaa ctagacattc 300  
 tcttaaagat ttatgcaata atatggctct tgtatctatg attgaacctt aaaatataaa 360  
 agaagccata gtagatgata actggataat taccatgcaa gaagaactga atcaatttga 420  
 aagatataat gtgtganaac tagtagaaca acctgaa 457

<210> 10658  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations



<400> 10658

agctcgcac aagtcctgtc taagtgggtcc tgaatatttg tgtatgacag nggtcaagaa 60

tgatagagat gagctaattc ctacaagaac agtcaccggg tggagaatgt gtatcgatta 120

caagaaactc aatgaagcca ccatgaaaga tcattaccgc cttccctaaa tggatcaaat 180

gcttgagaga cttgcggggc aatctttcta ctatttcttg gatggatact cgggctacaa 240

tcaaactgca gtagatcctc aagaccaaga aaagacaatt gtcacatgcc tcttctgtgt 300

attagcttat ctgcacatgt cgattgggtt atgtaatgcc ccagctactt tccaaagatg 360

tatgatggca atgttcgtg acatggcata gaaatgtatt gtagtctcta tggatgattc 420

ttctgacttt gcacatcttt tgg 443

<210> 10659

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10659

gctccttcaa ctgcacaagg ctcttaatat ttgaagagta ttcttgtgga accttcattc 60

tatgaagaca ctgacaaaaa attatcttct acttcttggg caaagtatgg caggctgggg 120

gcaagtaaatt tttcttccca tcagaccttg gatgcaattg tgatcgtata cccatatcag 180

ctagatcttg acagggtattc aagccatcct tcgtcttgcc ttgaatgtta aggagcgtcc 240

caatcacact ttcacaaaca ttttcttcca catgcataac atcaatacaa tttctaactg 300

caagatcaca ccagtaaggga agatcaaaga anatggatct cttcttccat atgcaactct 360

gactnttata cttcttttgg 380

<210> 10660

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10660

agcttgatct agtgtaaaat taactttacc tataagataa agcaaacaca ggtccagatg 60

attaccgaan ttgtaagaac aacaattaag tcattctgaa agtactcaaa cagataatag 120

tgcaactatag cttccctcag agacagagggc catgaaacct tcaccctttc ttccaaaatt 180  
 cagtgaaaaa tcagcattca aaagtggtaa agggcattaa atgttttttt tttttacttg 240  
 gtgcaggctg gacaaacctc actagtata attgttcccc aatccgggtc ttttgcaaac 300  
 attcagctga taagattttg aaagtgggaa tagtagactg aggccaccta aatgaaaatt 360  
 gtgaanaggg tgtcagggtc atttatcaga tacattttta taatgatata ttacttagtt 420  
 tcaaaaacat tactaaggta tacaagtaca acaacattc 459

<210> 10661  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10661

agcttgcana atggaagcaa agatatctct ctatgggtga aagaataacc ctcatthaatt 60  
 cagttttaac agcattaccc atttacttgc tgtctttttt tagaatccct aaaaaagtgg 120  
 tgcaaaaagat agttactatt cagagaaaatt ttctataggg aggggtgattt gaggccaaca 180  
 agatcccttg gtgaaatggg acacaatttg tcttcctaag aacaaagggg ggtaggggat 240  
 taaagacttg atcaaattha atgaggctct gcttggaag tgggggttggg agttggctaa 300  
 taattagaac caactntggg caagaatttt attgtctaaa tatagcggct ggaatgaata 360  
 gctctctggt agaaacagta gtgatttctc tcattgatgg aaagatctaa agattgtatt 420  
 tcagtagtag gacagcaata gcatcatcaa taat 454

<210> 10662  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10662

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 tagttcaatt tcgagcttct cgacatatta tgcgcccga tgggacatcc gtgtgaaaag 120  
 ttatgaccat ttgaatatct cgagagcttc cgatgtttta tttcgagcgt atcgatatat 180  
 tataagcctg aattggacat ccgtgtgaaa agttatgacc atttgaattt gcgagagttt 240

tcgatgttta atttcgagcg tatcgatata ttatacgctt gaatcggaca tccgtgtgaa 300  
aagttatgac catttgaatt tctcaagagc ttcgatgggt caatttctag actctcgaca 360  
tattatgcgc ccgaatcgga catccgtgtt aaaa 394

<210> 10663  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 10663

agcttatcca tggcttcccta tggaggtgag tcttttcttg attcatcttc tccttgaagt 60  
agcgtctcca atcatcattc ttccatctcc attccactgc cattaatctt caagaagaaa 120  
aagaatccat tgatgaagaa gatccaaggc ctactatcat actctaattt cgtccgggca 180  
ccgttgtttg tcagcatgcg accttcgttt gaccatttca aaatgtttta caccatcgc 240  
cgtgaaattc gtaaagttcc gagatgtttc ggagagaaat cggccaaaaa cagaaaaatg 300  
gaagtgtagt tagcaaagta ggggtgtgta aatagactgt tacaccctaa tttcatctgg 360  
ggactgttgt tgatcgcttc gaaaggcttc acaccatcg tcatggaatc cgtaaatttc 420  
gga 423

<210> 10664  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10664

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gagcagagct actccaactt tgctccagac tccagattca gaacaaagtt ctgtagttca 120  
gtcttggaat tttaaacaaa aaatccaatt cttgaagttt aagaaagagg aagcaatngc 180  
acttggggct caagccctgg atttgagatt gccatttggg gaaattgagg ttcttaagga 240  
aaacttggac gtgatcaaga gacagatagg tctagaagat gtggaaattt tatctgcagt 300  
agatgccgat tccttggcca gagctgaacc attagcttct ntactaaatc aaaatcctcc 360  
ttcacctgga aagccaactg ccatctttnt aactcggtag ctac 404

<210> 10665  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10665

agctgtcaaa caaatcgggtg atctcactca ccacaattat tatatgaaag atctaagtta 60  
 gatgctgaag gttgaaaaga aatgatggaa tctcataacc tatgttattc aaatcgaggc 120  
 cctaattgatt tacttggggtg atgttcgcaa aatattgagc aatggctcca gtgaagctat 180  
 tatgagaaaa acacaatgaa gtgagatgtt gaggatttga aagtgatgat ggaatctcat 240  
 tgctganatt gttccaacac aggtccaagt gttatacttg tgtgagatta gataaaaaaca 300  
 gaggaatatg tcctttgaag tcagatgaat g 331

<210> 10666  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10666

gagcgatata tctaactcaa ttgatcaatc tatgtaaatt atcatagata atnggatata 60  
 tagtctttga atgtatagat aaaaaaatga aaacaatcaa ttataaatc aggtatcttt 120  
 gttctctcta ggaattttta caaccaaaca attattgcac ctacaattgc ttgtgaggtt 180  
 tttatttatt tatttaaaact tttaattgaa ttctaagact ctaaaaatta attatgtata 240  
 cttgactcga atntatacta ataacaaaga aagacttaat atctctatct gtttataact 300  
 aattaaaatt gaatgtatct gaagttcaat tctcatgtat aaaaattcta ttaaacttct 360  
 catttgtctt tatctctttc tatcatacta tatcaattat gctatcaatt actcatctct 420  
 cttttgttgc aatttctctc aagatgtata c 451

<210> 10667  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10667

aattatagcc tcanaacatg ctacatatc atcttccatg gtagatgcaa caacaactaa 60  
 tgcataatgga attgcttcca tntgttttca ttccaaatca ttttaagacat tgtgcaaggc 120  
 taaatntgtc tccttttctaa atggaacggg tgatgttgaa cactttttct tcctaaatct 180  
 ctctagtact ntattgatat atgctntatg agataagctt aacaatccaa gtgatctatt 240  
 acggaatata tttatcccta tcatatatct tacctcacc atactcttta catcaaagtt 300  
 gctagagaga aacttcttag tctcatgaag aagaccaaga ctattagttg caagtaagat 360  
 atgatncaac atacagaata gaaaaataac cttactccca ctgaccttca gatatatata 420  
 caccaatcaa caatatntc cttaaattca aaggaaacaa t 461

<210> 10668  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10668

ctggattctc tgtctgtnta tggtacataa gccnctaca cgtacctcat tttatctcca 60  
 taccttttaa ttntaaacat tgcgtggact gtgttgtgac tctcttgtgg tattttctac 120  
 catagaaggg ctagtcacga tcaacaaang ntatatcgta catgtcgaat ccaaaataaa 180  
 ctagtacatt ctcatntaaa aaaacaaata atacttgttt gggttaaatatt gaagaactaa 240  
 ttttaaattc taagttgatt ntagattaca acanatttga ttaactttta cgttgaatta 300  
 aaattttatc tctatcttga ttttataata aaaatatcgt catataaatc agttaacatt 360  
 catctaaaca caactntaat ggaacatttc ataccaggct attatgattc agattcatca 420  
 atgataatat gagagccaat annttggctt caattcgaat cgactctcan atctc 475

<210> 10669  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10669

cttgactctc anntttgttt atttactgta ttatatctta cgtatatttc aactgtatc 60  
 ccaagtgtag tacttatgta caattcgatt ccgaggatat taaaaggctt tntatttatt 120

attttacttt tctgtacatt aataactcta acatctcaca ctataattag taaatatgat 180  
 taattaattc aatatatact gacataatta atatcgaata agataatcaa atagttaaga 240  
 aaatgggggat aaaaatagac taaagttata tgataattaa aatagttaag gaaatgtata 300  
 aaaagataac tcgcttttagc atttaattnt attgggtctta ataatttaca taaattttaa 360  
 tattntacac aaaaattcac tctaataatta agaatgttaa aatgagtgc tannatttat 420  
 tttataggtc gtataatact taaaaaatat attatttata caataaatgt tntaaacaat 480  
 ag 482

<210> 10670  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10670

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 tgggggcaag taaattttct tcccatcaga ccttgatgc aactgtgatc gtatacccat 120  
 atcagctaga tcttgacggg tattaagcca atcttcgtct ttgccttgaa tgttaaggag 180  
 cgtccaatg actctatcac agacattntt ctccacatgc ataacatcaa tacaatgtct 240  
 aacgtcaaga tcacaccaat acggaagatc aaagaanatg gacctcttct tccatatgca 300  
 actatgactt ttatccttct t 321

<210> 10671  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10671

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 tgaaatgtta atatttttaa tttttccct ttgtggactc aaacttttaa ttttcaacaa 120  
 cacctacatt aaaattggaa gacattctca cattaattat tgaaacttag aaatgtcaaa 180  
 taagttctta aacttaatga tttagtttta tttcggttct taaacatatg ctaatatttt 240  
 taataatatg tctacattat caccctatgt atattatctt gaatgttgca ctaatgtcat 300

cggtgattat atcttttagag ggttntgttt ctctgattta ataactatct gacaattcat 360  
tccattttca agatctaaag tg 382

<210> 10672  
<211> 449  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10672

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actacctctt tgaagaaaag atccatcaca tgacaagcat cgtccacctt gtgacatgga 120  
atgaagtatg ccatcttgga actatcaaca accacaaaaa ttgaatcctt gccctcttg 180  
gaccttgga gaccaagcac aaaatccatg gaaatgttgg tccaagggga ggtaggaatt 240  
ggcaatggag tatacaaacc atgatgcatg atnttggact ntgccttatg acacacaatg 300  
caattagaac aaaaataaaa tttcatgcaa aatgttcaaa gtcttttcaa ctccaaaatg 360  
gtcccattaa ccccttttat gaacttcata aatcacgagt tcacgcatta nactttgatg 420  
ctacacaatc tattatTTTTT aacaagtat 449

<210> 10673  
<211> 482  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10673

ggttccaaca ctctgttcaa gctctcccaa aatctatagg gtaatctagg atctctatca 60  
gatactatgc tagatggcac accatgtaac ctgacaacct cacttatata caaggtggtc 120  
aacttctcca aggaaaatct gatattaatg ggaatgaagt gagagactta gtcaatctgt 180  
caacaataac ccagatagaa tctaaacctg taggggttct aggtagtcct accacaaaat 240  
ccatggaaat actgtccac ttccactgag gtatctctaa gggttgtgac ttccctgaag 300  
gtctctgatg ttctatctta gccttctgac agactaggca tgaattcaca aactcactaa 360  
cctctctctt catgttgggc caccaaaaca tcgtctntaa atcatgatac atcttggtag 420  
ctgatgtgcc atcattntct tctattatct gaaccctttt cgaccattta attattattg 480

<210> 10674  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10674

tcataaaagt ntatatggct agaaacaagt accgaggcag tggttctaga agtttaatga 60  
 gtttatgagc aactcacgat tcaacagatg tgacatggac cattgtagct acgttggtgc 120  
 aacctaccct tctgcgggag ggcgacacgt gaatagtgat gcgtattcca cgaaagggat 180  
 acgcgcggag tcgccaccaa cgtttatgtg aggaaaacgt cagatgaacc agatagacgc 240  
 gatctacgaa cttttaagtg aaaggctcgg gagatgtatt tatgcacggg gaaggatta 300  
 gcaccccaca cgatcgtcac aagggacggc agcctttaat cgaatgtgca aacatgactg 360  
 tgattttacg ttccgcttta tgccttata tccttatacc ctgtttacat ttttctctct 420  
 tgtggcgac 429

<210> 10675  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10675

cagcaacact catgttcac cactctgccc ttactgtaaa aaaactaatc acccacaaaa 60  
 caagtgttgg tggaggccag atgtaagggtg tcatatgtgt ggtcagttat ggcattgtaaa 120  
 agaattgcaa atttaacaca caagaagaag tcaagggtgt tgaggaccaa tcacaagagg 180  
 agcagttggt cgttgcatca tgcttggctt tcagtagctc tacaaaaagt tggcttattg 240  
 atagtgggtg tacaaaccac atgacctatg atcgtgagct ctttacagaa cttgatgaag 300  
 ctattttttc taaagtcaag ataggaaatg caacatatat tgaaataaaa ggcaaaggaa 360  
 ttgtgtcaat ttaaggccac acgggtttga aactaatttc tgataactac taaatatgag 420  
 ttantttgat aataaaaata tattgaanat atctctaaaa atat 464

<210> 10676



<211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10676

ccctcagcct tatagtatcc atcttggtgcc tttttccac aactctngta aatgggagag 60  
 aaatgttcat cttaaagcata caagtcctta atgttatcaa atcctaaaat atgagctcct 120  
 agggagcaaa acatgtgtgt ctctagaga gggcatcagc taccacattt gtttttccct 180  
 ttttgtattt gataaaatat ggaaattgct ctaggtactc taccattttt gcatgccttt 240  
 tgtttaactt gctttgccct ctaatgaact taagtgattg atgatcacta tgaatgacaa 300  
 attccttgga aacaaggtaa tgttcccaag ttcgagtggc tcttattaag gcataaagct 360  
 ctttatcata ngtggtgtag ttaaggtgg caccatgaag tttctcacta aaataagcaa 420  
 tagggtgccc accttgcaac 440

<210> 10677  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10677

ngaggtacaa agaattatta gctcacattc ttntaattat ttattatttc taagttcttt 60  
 ntttataatt agtggttagtt aatattggtc ttaataccac tactacaatg tgatctttaa 120  
 caatatttct ctgtctaaca cttagtaaaa atattgntaa ggttttgaca acacttaaaa 180  
 tatgtcgcta aaaatgaata aatattatta atatatgttt ntatgacact ttatcaaata 240  
 tagtgataaa gtcatgttgt taaaacctt aatcacttat atttcatcaa tcaattcaag 300  
 caatccatac acttagccaa atagccattt aatcacaaca acaaacgtaa aactcataac 360  
 cctagaccgc ttgaaaacaa aacagaatca tgccataatt aaaattagac anagattttc 420  
 aacatagaaa ctnnttacat agcagt 446

<210> 10678  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 10678

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ctgttcatga cactgagatt cctcatggcc actagggttt gggagactca tagtacccca 60
attaacagca tgagttntac tggttgttct gttctcccta gataaaggcc ctttgtactt 120
tctgtatctc gtcttcttct aggtgtcttc cttaagagag gaacccttaa atgtgcccc 180
aagtcattgc ctctgaatat ccccgacact gccaccaagg atgttttggt atgcagactg 240
acattttttg agaagtatat ttgagtcttc tccttgctca cttcttgact tgacatttca 300
caaaagaggt tcattgtgtc ttgaacacac tgcactctgag agatnttagc ttgactacaa 360
aggagcaagt catcagcaaa cagatgagaa ataggaggac tattcctccc catactatga 420
ttatntacat tataagattt aatgtgacaa taaaacctaa aacgctggtc cttatttata 480
ctaagaatcc taattaa 498
```

<210> 10679  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10679

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gctaaacatt caacttcgag cgtctcgata tattacgagt ctcaatcata catccgagan 60
aaaagttatt gtcatttgaa tntgctcaga gggtcaacat tcaatttcga gcgtctcggt 120
atattacagg actcaatcag acattcgagt aaaaagttat tgacgtttga attagtcaga 180
gcgttcacaca ttcaatttcg agcgtctcga tatattacgg gcctcaatca gacatctcga 240
gtaaacgtta ttgtcgtttg gattggctca gagattcaac attcaatttc gagcgtctcg 300
atatatgacg agactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 360
agagcttcaa cattcaatnt cgagcgtctc gatatattac aggactcaat cagacatccg 420
agtaaaaagt tattgtcggt tgaattggct cagagcttca acattcaatt tcgagcgtct 480
cgatatatga caggactcaa tc 502
```

<210> 10680  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10680

agtcttgaac caattcaaac gacaataact ntntactctg atgtctgatt gaggcccgtg 60  
atatatcgag acgctcgtaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120  
tttttactcg gatgtctgat tgagtcctgt catatatcga gacactcgaa attgaatggt 180  
gaagctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgaggcccg 240  
taatatatcg agacgctcga aattgaatgt tgaacctttg agccaattca aacgacaata 300  
actttgtact cagatgtctg atagagtctc gtaatatatc gagacgctcg aaattgaatg 360  
ttgaagctct gagctaattc aaacgacaat aactt 395

<210> 10681  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10681

tagagtggca tactcttatt ggaaatcaac ttgttacaaa attaanagtt ntaaggactg 60  
acaatggcct gcagtttgat tcagagcaat ttaatgagtt ttgcaggaaa gtatgtatca 120  
aaaggcacaa aacagtttct acacaccaac aaaatggatt agcagaaaga atgcataaga 180  
ccattttgga aagagtggag tgcatgctgc ctattgcagg actgccaaag accttttggg 240  
gagaagctgc aaacacaaca acctatgtga ttaatagatg tccatcatca gctttagact 300  
tcaagacacc aatggaagct tagagtgggtg aaccacctga ttactcaaga ttgaaggtgt 360  
ttggatcact ggccctttgct catgtttaaac aangaaatgt ggatgcaaag gctgtanagt 420  
gtgtgttcat tatctat 437

<210> 10682  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10682

tcattgagaga gtcaaagatc aaattgagag gagaaattaa agctatgcta aacaagccaa 60  
canaggaaga aagaaggttg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120

agaaagggttt cctgaacaaa ggatatcaaa gcttcaacca aggggaatgg accatttgtg 180  
 cttgaaagaa tcaatgacaa tgcttacaaa gttgagctgc ccggtgagta taatgttagt 240  
 tccaccttca atgtctctga tttatctctt tntgatgcag atggagaatc cgatttgagg 300  
 acaaatcctt ctcaagaggg agagaatgat gaggacatgt tcaagagcaa gggcaaggat 360  
 ccacttgaat gacttgagg acctatgaca agggctagag caaggaaagc caatgaagct 420  
 cttcaacaag tgctgtccat actatntgaa tacaagccca agtt 464

<210> 10683  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10683

cagctagaat gttaggacgg tatcaaagta atctatgaat ggtacattcg anaactacaa 60  
 agaagggttct aagatactta caaggaacaa aaagtttgat gcttacatat aggaggtttg 120  
 atcaccttca ggtgattggg tatttagact cgaacttgct caatgtgcag atacaaggaa 180  
 atccaccctt ggttatgtac ttcttttagc caaaggagta atatcatgga agagtgcaaa 240  
 gaaacctatt gttgctacat tcattatgga agctgaattt gtagcatggt ttgagactac 300  
 aattcaagct aattggcaac aatattgtca agccgctaaa aatatattgt aataactcca 360  
 taacagtatt nttctctaag aatgacaagt actctaaagg tgctaaatat atggaattaa 420  
 agtaatttgt cctgaaagaa gtacagaaac aaaaaatgtc aatagaaatt 470

<210> 10684  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10684

tgagcanatt cgaacgacaa ttacttttaa ctgggatgtc tgattgtttc ccgtaatata 60  
 tcgagacgct cgaaattgaa tgttgatggg cggtgcaaata tgaaacgaca ataactgttt 120  
 actctgatgt ctgattgagt cccgtaatat atcgagacgc ttgaaatgaa tcttgatgct 180  
 ctgagcaaata tcaaacgaca ataagctttt actcggatgt ctgattgagt cctgtaatat 240

atcgagacgc tcgaaattta atacgagagc tatgagcaaa ttcgaacgac tataattttt 300  
tactcggatg tctgattgag tctcgaaata tatcgacacg ctcgaaattg aatgttgatg 360  
ctctgggtcga ttcaaacgac aatatatttt ctgccaacat tgcagaattt ntatacatac 420  
actggtctat aatatctctt tatggtagac gaagttttgt 460

<210> 10685  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 10685

agatagggca tgctcgatgg cccttaacac tgtattcatt caaataccaa tatgcttgga 60  
agtcattatt ggtaccaaata tacatccac aacttgaatg ttttatttcg ataccatga 120  
aacactacaa ttctctattc tacaactttg tcagtcttta tctatggacc gagataaaca 180  
tcaatatcat ttcttggttc gcttggtggt gatatcatca ttgacaacat catgtattct 240  
tgtttcatgc acaaccaagg aggcaacgtg tatattacta acataacagg ccacatacta 300  
tgttgagtac ttaaactatc atatggattc att 333

<210> 10686  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10686

tttgtgaagt gatttgccgg atatgttgat gatagaanaa gtactaccgg anttgtattt 60  
tttatgggtg attggtgttt tacatggagt tctaagaaac aaggcattgt gacactttct 120  
acttgtgaag cccaatatgt agctgcaact tcttgccat gtcatgccat ttggctaaga 180  
agaaatgtgg aggaaccttc agtggtgcca taagaaagca ccaagatcta tgttgataat 240  
agatctgcat aagagcttgc caagaatccg gtgttccatg aacgaagtaa gcatatagat 300  
acaaggtatc attttattag agag 324

<210> 10687  
<211> 244  
<212> DNA

<213> Glycine max

<400> 10687

atggagtagc ccgaagctta tgctgcagac atttacaata gacctcctta acctcagcag 60  
caaaatcacc acaacagaac aggtatgacc tctctagcaa aagatacaac cctggatgga 120  
ggaatcacc taatctcaga tggcttagcc ctcagcaaca acaacagcag cctgctcctt 180  
ccttacaaaa tgctactggc ccaagtagac catacattcc tccaccaagc caacaacaac 240  
aaca 244

<210> 10688

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10688

agcatgggct catgaacgca cacctttggc taattttatt tgatggagag ataaaccaat 60  
ggctcttttc attgtgcaag caagattggg tggactaacc cactttttcg gagggatatat 120  
atttacttat gcagccttct taattgcctc gacttcgggc aaatttgggt aatttcatta 180  
attctttatt attatatctg gcatatcatt tccttttatg gggaanggac gccattata 240  
catctaggat ccgacttcta tcattgatac taataggaaa tgaaccacta tggcaaggaa 300  
aagtgtgat 309

<210> 10689

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10689

tgggtggtga gtcatatata cagtttcttg aaggtctcca tgcaaaaagg cattgttgat 60  
atccacttga tgaataggcc aatgttgata aaccacaaag gacagaacag atctaactgt 120  
tgctggctta atcactggac taaaggtttc tttaaaatca aaccctctc tttgatgata 180  
cccttttgct accagcttgt cttgtgcct ttgaaaacgt ccatcagcat taaacttgct 240  
tttaaacctg catgttctc tttcatagct ttgagccatt ctggcttggc cattgcttcc 300

tttatagtat gtgggtcaac aatgtgatca tagcttcctt ccttgtaaga agcataagtt 360  
 ttcgggttaa aaacaccagc tttgggtctg gttgtcatgg gatgagtatt ntgaggaaca 420  
 taactngcaa tgggag 436

<210> 10690  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 10690

ccaagcttat gctgcaaaca tttataatag atcccttcaa tttaaaaacc aacaacaata 60  
 gaataattat gatctttcaa gcaataaata caatccaggt tggaggaatg atccaaatct 120  
 gagatgggca agtcctccac aacaacaaca gcctatccct cctttccaga atgttgctag 180  
 tccaagcagg ccataatgtt ctctccaat gcagtagcaa taacaacagt aacaacaaag 240  
 acaacaagca actgaggccc cttctcaacc ttccttagag gagttagtga ggcaaatgac 300  
 catccaaaat atgcaatddd agcaagagac aagagcctcc attcagagtc tgacaaatca 360  
 aatggggcag at 372

<210> 10691  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 10691

gtatcaaatt caaacgacaa taacgtttta ctcgatggt tgattgcgtc tcgtaatata 60  
 tcgagacgct cgaaattgaa aacggatgct cgtagcaaat gcaaaccgca ataactttta 120  
 actcgatgt atgattgagt accataatag atcgagacgc tcgaaattga aaaaagaagt 180  
 tctgagcaaa ttcaaacgac tataactttt tactcgatg tctgattgag tcccgtaata 240  
 tattgaggag cacgaaattg agaacagaag ctctgaccat aatcaaacca aaataacttt 300  
 atattcgat gtgcgattga gtcccgaat atatgaagac gctccaaatt gaaaacagaa 360  
 gctctgaaca aattcaaacg acaataactt tttactcgga tgtccgattg agtcccgtaa 420  
 tatatcgaga cg 432

<210> 10692

<211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10692

agctntgagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg 60  
 atatatcgag accctcgaaa ttgactgttg aagctctgag ccatatcgag aactcgaag 120  
 ttgaatgttg aagctctaag ccaattcaaa cgacaataac ttttctctcg gatgtcctat 180  
 tgagtcccggt aatatatcca gagctcgaag attgaatgtt gaagctctga cccaattcaa 240  
 acgacaataa ctacttactc ggatgtctga ttgagttctt taatatatcg agacgtcga 300  
 aattgaatgt tgaagctctg agccaattcc aacgacaata actttttact cggatgtttg 360

<210> 10693  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10693

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 atatgttaac taaattatct ttttatctag aactactaaag tttagttcac taaattatct 120  
 ttatatagaa cactaaagtt taatgacttt atttgtctat tgaaaaaata cagtggtaaa 180  
 ttatactctc tttttatatt cttaattata aaattttttc aactaattca tacctcttaa 240  
 gaaaagtaat tagttttttat ttaatcacat taaatttgct aattaattgt taaatcattt 300  
 caaaattact tttttttttt agagaaaaaa ttacattcat cttatcttta tccacttaat 360  
 tatttatana ttaattattg agaaagacnt aataagaaag ggtatgtaag acaaatataa 420  
 ttaatgcac tagaaat 437

<210> 10694  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <400> 10694

agcttcttta ggtgtgattc ccttaagctc tttgttgga tttgtttcaa aatacagtta 60



gtagtagata cgccttcccc aaaagtaata aggcattctt ttccttttca tcatgcttct 120  
 gcccaagttc cgaaatgtca tttttctttt ctcagcaaca ccattatggt gaggtgtgta 180  
 aggggctgcc acttcatgag ttttaccttc atcaccacaa aatttctaaa attcatgtga 240  
 attgtattct ccatttggtc taagaacctt aattactttc ccaccttgtt tttcgacctg 300  
 tagtttgaat ttcttaaaga tctcaaacgc ttcactcttc ttattgataa gataaatcca 360  
 tattttctag taaactcatc aacaaaagaa acaaagt 397

<210> 10695  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10695

gctattttaag aaatgatgac taaattcgat cttgtantgg ttataattca agtggagtg 60  
 ttcaaaaattt cacgtaaagt tattttatta ttttgaacat aattttttta tagttttata 120  
 cttataatat aaaatcattt atactttgat gtaggaaaga agcttgacaa acaaagctaa 180  
 tagaagcaag caagaaataa aatcaattat tggcacaaaa atcaatcatg caaaaggcat 240  
 ttgaaatggt aacatctttt aatattttat attcattttc ttataagtta tataataata 300  
 actctttttt tttgttattg tttttatatg atatatgaaa gtttggtgaa atttatataa 360  
 aagcatcatg cattagatta tactgttttt atattattta atttgtctnt tactatattt 420  
 aattttaata aaaagaaga 439

<210> 10696  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <400> 10696

agctttttat tttcagcata tgaagattaa tctgtggcca ccacatggac tcctctaagg 60  
 acaataacat catttcttgc actgaattga tgggagttgg aagccatctt ctcaatcaaa 120  
 ttcctatcct caacaggagt catatcacca agggctccac cactggcagc atcaatcata 180  
 ctctctcca tgttgctaag tcctcatag aaatattgaa gaaggagttg ctcagaaatc 240  
 tgggtggcgag ggcaacttgc acacaatttc ttgaatcttt ccagttactc atacaagctc 300

tctccactaa gttgcctgat gcctaaaatg tcttttctga tggcagtggc cctagatgca 360  
gggaataatt tctccaagaa caccctctg 389

<210> 10697  
<211> 435  
<212> DNA  
<213> Glycine max  
  
<400> 10697

cgccctttgcc tgatccagat tatgaggtac atattgacta tttttggggg tgtgaaggtc 60  
ttaagaaaac catttggaac cttatgaatg gtgatgagaa cagccccatt gaggaagatc 120  
tcaaatccag caatgcacat tgcattctat acaaaataaa ggatcttagt aaggtataaa 180  
tcaacatgac atttaccatt atattaatct acataatggc tagctggggc cactaagaga 240  
taaagataaa tcatgtgtat taaaattcag gcaaaaaaag ttgatgagtt gaggcagaag 300  
cttacgatga gaggtctacg ttgtcatcct atgtactgca ggggggtcatc tagaatgcat 360  
gtgattcctc ttcttgcacg tagagcccag gcaactcacgt aattaccact tcatccttaa 420  
cttctaattt atatt 435

<210> 10698  
<211> 417  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10698

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gaggagagaa atgagcacia aattttgtgc ctcaaagag gtatgaactt tgaagtgtaa 120  
ttctaaaaag atcaaagttg aaaaaatgca cacacatgac ctctatttat agcctaagtg 180  
tcatacaaaa ttggaggga atttgaattt ctattcaaat tttacttgaa tttgaaattg 240  
aattttgtga gccaaatttt ggagccaaaa tttcactaat tatggttagt ggaatttagc 300  
tatggttcat cccactaatc caagatcaag tccaagattc tccactaagt gtgcttaggt 360  
gtcatgaggc atgtaaagca taaaggacat gcacanagag tgattatatg atgtgac 417

<210> 10699

<211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10699

gaatgcactg ttcaatggag tagacaagaa catcttttga ctgatttaca cttgcacagn 60  
 ggccaaagat gcatgggaga tcctgaaaat cactcatgaa ggaacctcca aagtgaagat 120  
 ttccagattg caacatctgg ctacaaaatt cgaaaatctg aagatgaagg aggaagagtg 180  
 tattcatgac ttccacatga acattcttga aattgccaat gcctgcactg ctttgggaga 240  
 gaggataaca gatgaaaagc tggtgagaaa gatcctcaga tccttgccta agagatttga 300  
 catgaacgtg actgcaatag aggaggccca agacatttgc aacatgagag tagatgaact 360  
 cattggttct cttcaaacct ttgagctatg actc 394

<210> 10700  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <400> 10700

gcttcttcat tcaggtatcc attcagatac gcgctcttca catccatctg gtacagcttg 60  
 aatttgagga agcaagctac accaagtaac aatctgatgg actcaagtct agcaacaggg 120  
 gcaaaagttt catcaaagtc tacaccttca atctgagtgt agccttgagt aacaagtctg 180  
 gccttgtttc tggttataac accatcttca ttggttttgt tcttgaagat ccacttggtg 240  
 ccaatcacat tagttccctc gggcttagga actagctccc aaacttcatt ccttttgaat 300  
 tgctccaatt cttcttgcac agcattgatc cagaactcat cagtttagtgc ctctttcaca 360  
 ttcttgggct caattatgga gacaaagcat gaattggaga caatctcaat c 411

<210> 10701  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10701

gcatgcaagc tntttctata aatatttaac atagttgcat ttcatgactc aacaatatat 60

aatttttcat tacaaaataa tgtattaact ctatgtttta tagcttcata tacacaaatt 120  
gctaatacatt tgagtactaa attaactatg gtaaattaaa taaaaaatat atgacactat 180  
aatcaaatat atgttttgta tataaatgaa atgttcaagt tatatttatg ttcattgtaa 240  
tgttcaagta atgtttgaca attatgatac attcatgaag catataagtg aaatgttgta 300  
tgttttagcac tcaactaagac cctgtctcat tagtttagtg tgtatgttcc ttaggtaaag 360  
agatctagtc caagagcata caagtgcaaa gcataatt 398

<210> 10702  
<211> 450  
<212> DNA  
<213> Glycine max  
<400> 10702

tgaccctcga gcccattccat gcattctttat tggcttgata ccacatactc aaaggatatt 60  
ttgtctatga ccttcaactcc cacaatatta tagcatctcg caacatcgtc ttttatgaag 120  
accatttttc gttatttcat gaaaaccaag cctcaaacac cacacatacc tctctttccc 180  
caactccatt ttcgagcaac cccgaaaatt ttgactctcc tatcacaccc attgtcaacc 240  
cgtcttcttc acatgctcac gaccctcacc tacgacgata tacgagaccg aagcatgcac 300  
ccacctacct ccaagactac catcgtgata tcacttctct cactgttacc acctcgccca 360  
atgttcggta tcctcttaac tccgtcttgt cttactctcg tctctctcct tcgcttcgtc 420  
acttcgtcat gtccatttcg gtatctactg 450

<210> 10703  
<211> 374  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10703

ccaagctntg ggactgagga cctatataac attatcaagg ttttagttta gggagttttt 60  
tttcggagag gaaaataatt ctaggatttt agaattccag tttttattac tgttcattgca 120  
cactgttcac gtagaataaa atttattttt tgcaaatcat ctctaataca tacatctttt 180  
aatattatgc tctttttatt ttcttttgat atactttgtg ctttaacgac ttgaattcaa 240  
tatgattttg tttatcaatt atttttggat ttatacatta cttatacaaa attttataag 300

tntctttttt tagttaatat ttgactaggt tttaaaataa ttaattaaaag atgtctttta 360  
acagactttt aaat 374

<210> 10704  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10704

tgagcaaatt caaacgataa taacttttta ctcggatgtc caaatgtttc ccgtaatata 60  
tcgagacgct cgaaattgaa aacaaaagct cgtagcaaat gcaaaccaca ataactttta 120  
actccgatat ccgattgagt ctcgtgatat accgagacgc tcgaaatnga aaacaaaagc 180  
ttgagcaaat tcaaacgata ataactttta actcggatgt ccaaataaaa cccattgtat 240  
atcgagatgc tcgagattga aaaccgaagc tcgtagcaaa tgcaaaccac aataactttt 300  
tactccgata ttcgagttag tcccttatta tatcgagacg cttgaaattg aagacagaag 360  
ctcgtagcaa atgcaaacca caagaacttt taactgggag gacgattgag tccggaatat 420  
atcgagatgc tcaaaattga aaacagaa 448

<210> 10705  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10705

tcaagctagt tntatccaca tagtggatat cttcccatta caaacttggg agtttactca 60  
ataatcatcc aaaaacactt tttccaataa tttagttttc tcattgaatt tcaatgcatt 120  
tggttatatg aattaataaa ggagaataaa tgaaataaga aaaaaattat tgtttgattt 180  
gtaaatgaaa ctgaaatgaa ataaatgttt ttaataagtt ttaatatgtt tttaagcaaa 240  
agtgtgggca acaaaaggat atacttttta gaataaaaaa tacatttttt taatttgtca 300  
gtatatcttt atgagcattt aatttgcaat attttggtct ttaaggatat ctaagttatt 360  
tctattaaaa aaggatatct aagttattta atgaacatac ctcttctttt tccttattca 420  
actaaata 428

<210> 10706  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10706

tcttacaagc atacggctnt ctggatgtag atgatgatat ctatacagat ggatcttata 60  
 tatctatata tctatagata gatatataga tatagatata tagatataga tcatacaatg 120  
 aagtaccgca cgagtgggta tataggaatc caaatctgcc gaatcactca tgttatgatc 180  
 ttctacatcc taggtcttcc cgttccttca tctggcttat gttcttcatg tagcattcag 240  
 actgaatgac tctatgaaat tacgtcgcta ctccacatg gtacgggtaa cgtaagagac 300  
 atctctatctt ttcccggtgg gaatccttag aattaccaca gcttagcttt caattcgcct 360  
 ctgaccatca aatgaaat 378

<210> 10707  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10707

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 aaaaaaaaaa gcagcggatt cagtagcacg ggctgcaata agagctcggg gtcattatgt 120  
 taataaaaag tggtcggcg gtatgttaac gaattggtat actacagaaa cacgacttca 180  
 aaagttcagg gacttgagaa tgcaacaaaa gacggggaga ctcaatagtt ttccaaaaag 240  
 agatgccgct atattgaaga gacatttagc tcatttggaa acatatcttg gcggcattaa 300  
 atatatgacg gggttacctg atattgtaat aatcgtcgat caacaagaag aatatacggc 360  
 tcttcgagaa tgtataactt tggaaattcc aacaatttgt ttaatcgata caaa 414

<210> 10708  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10708

agcttggact tcctgtgttt tgggaacctc tccttctca ggtgtacca aaccaatca 60  
cctggttcaa gcatgacttt ctttctgctt ttgttggctt gccttgcata gctcgcattt 120  
ttcttttcaa tttgggcctt cacttgcctc tgcaacttct tcacatactc agcttttagcc 180  
tgtgcatcct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240  
aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300  
cgattataag caaactcaac atgaggcaaa caggcttccc aagatttaag atttttcttt 360  
aaaacagtcc taagcagtgt gcctaaagtc ctattgacta cctc 404

<210> 10709  
<211> 363  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10709

ngcacaatgg aagcagagat gtctntctat ttaggcatga taaccctcat caattctgtc 60  
ttaacagccc tccctatcta ccttctctct ttttttagaa tccctaaaca agtgggtgcat 120  
aaggtagttt ctattcagag gaactttttg tggggaggag gttctgaggc agccaagata 180  
ccgtgggtaa atcgggatat tgtttgcctt cccaagaata aaggagggct ggggattaaa 240  
gatatgtcca agtttaatga ggccttgatt ggtaaattgg gatgggactt ggcaaataac 300  
cagaatcagc tgtgggctac agttttgatg tccacatatg gtgggtggaa tgctttatgt 360  
tat 363

<210> 10710  
<211> 372  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10710

agcttaataa atctatatat ggttttaaac aagcttctca ttagtggtac cttaagtttc 60  
atgggataat ttcttcattt ggttttgatg aaaaccccat ggatcaatgc atataccaca 120  
aggttagtga gagtaaaata tgttttcttg ttttatatgt agatgatatt ttacttgcag 180  
ccaacgatcg gggtttgcta cataaggtga aacaatttct ctctaagaat tttgacatga 240

aggatatggg tgatgcattt tatgtcatcg gcattaagat tcatagagat agatctcgag 300  
 gtattttggg tctatcacan gaaacctata ttaacaaaat tctagagaga ttttggtatga 360  
 aagattgctc ac 372

<210> 10711  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 10711

agcttagcaa atggacctgg gtgttgcccta gtttcatcat atcttccata atactcatca 60  
 cctctatcat atctaataat tttcacattt atctctaatt gcccttttac ttcattgtag 120  
 taaatttcta aagcatccat tgcctaagaa atctcgggca gtaagtagac ataactgtaa 180  
 cgtgaataat catcaataat ggtgataaag tatcattcct ttccgaaaga actaacatca 240  
 aaaggtccac aaatatcagt atgcacaatt tcaagaagct gagtgcttct ttagctcct 300  
 ttctttgtat gggttggttg gtttccttta atacaacca cacaatatatt tagatcccgt 360  
 aaatctagat aaggaagaaa ttca 384

<210> 10712  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10712

ctcaagcatt gcatacccca aggatccatt aggaaattac ttgtgataga gagccattan 60  
 ggtgggctca tggggcactt tgggatagaa aagacccttg tcttactcaa agaaaagttt 120  
 tattggcccc atatgaagaa agatgtccat aagcattgca ctagggtgtgt ggcttggtta 180  
 caagccaagt ctagggtgat gccatcatggg ctgtacacac ccttaccat cccctctgca 240  
 ccttgggtag acattagtat ggactttgtc tttgggcttc ctagaacca aagaggtgta 300  
 gactctatct ttgtgttggt ggataggttt agcaagatgg cacactttat accatgccac 360  
 aaggtggatg atgcttccca catctcanaa ctctttttta gggaagttgt gagactccat 420  
 gggttgcccta ggaccattgt atctgatag 449



<210> 10713  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 10713

agctttatat cataggattt taagtgatta tgataattcc taataagcga gaacgttttag 60  
 agtcagtgat ccagcctcc ctaatgaatg gcacatataa gttgggctta gtaaacgggt 120  
 aacaggcaca atggaacatt gatcactaat ttttttcttt tccattaatg ctacaatcaa 180  
 cagtaactta tgcggcatat gacaaagaga tccatacctg aatggctaga aatgcagcca 240  
 tgcaaatgca gttccctatc aagcacagaa ctccaagatg aaaatgggtca aaccaaaggg 300  
 tctgttaacc accaattaat cattcacatg gctctggctg accttttagca cttatttcat 360  
 ttgtgttaca tgaatgaatt tagcatattc tatcaaagct 400

<210> 10714  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10714

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 tctttcttct tcataattga aattctgata ccaggggaca gatgtcgtac cggatgtcac 120  
 gacatcacgc ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtta 180  
 ataacaccag agaattgttt acccagttcg gtgcaacctc acctacatct gggggctacc 240  
 aagccaggga ggaaatccac tctcaatagt gttagttcaa ggtctaacag cccctgttta 300  
 caaccttctc acctaacac taccgtgcg atctctacct aagagccact cttagatatg 360  
 agaacctgcy ctactccct ctactcaca c 391

<210> 10715  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 10715

agcttctgtt ttcaatttcg agcgtcttta tatattacag gactcaatcg gacctctgac 60

tcaaaagtta ttgtcgtttg aatttgctca gagcttctgt tctaaatfff gagtgtctcg 120  
 atatgttacg tgactaaatc agacattcaa gtgaaaagtt atttcggttt aactttgcaa 180  
 cgagcttccg ttttcaacta cgagcgtctc aatttattac gggactaaat ctgacatccg 240  
 agtaaaaatt aattgtcgtt agaattttct taaagcttca gttttcaatt ttgagcatct 300  
 cgatttatta cgggactcaa tcagacgtcc aagtaaaaag ttattgttgt ctgaatatgc 360  
 actgagattc tgttttcaat tctgagaatc tcgatatatt acgagactca a 411

<210> 10716  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 10716

agcttcaccg gagagaatat cgcaaacctc tacaggaact ctgctcgtgg attcgagggt 60  
 attgacaaca ttaaattcagc cgtggagaaa gtgtgtccag gagttgtttc ctgcgcagat 120  
 atccttgcca tcgctgccag agactctgtt cagattgtaa gtgggtcaaac aaccaacaaa 180  
 aacacattaa actaaatcat taaattgtac atatcaaaat taattaccaa tttagtagca 240  
 cacatgcaat taaagagaac attttgttga ttttgatcaa tatagcttgg aggccctaca 300  
 tggaatgtta aacttggaag aagagacgct agaactgcta gccaatctgc tgctaacaat 360

<210> 10717  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 10717

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 gagtctaattg ccattcttac aaggaaggat tttttagatg atatttcaga ttccttagaa 120  
 gatacacata ttcattgaaa tgactctaaa gaaaaagatg aaggaagcaa tgaggattct 180  
 caagataatg gggctagagc aaataatgaa cttccaagag aatggaaagc ctcaagagat 240  
 catccccctg acaacattat tggatgata tctaaagggg taacaactag acattctctt 300  
 aaaggtttat gcaataatat ggctttttgta tctatgattg aacctaaaaa tataaaagaa 360  
 gccatagtag atgataaatg gatcattgcc atgcaagaag aactgaatca atttgaagaa 420

acaagt

426

<210> 10718  
<211> 396  
<212> DNA  
<213> Glycine max  
  
<400> 10718

tctgttttca attacgagcg tctcgatctt tacgagactc aatcggacat ccgagtcaaa 60  
agttattgtc gtttgacttt tctcagagct tccgttttca atttcgatcg tctcgatata 120  
ttacagggct caatcggaca tccgagtga aagttattgt cgtttgattt ttctcagagc 180  
ttccgttttc aattacgagc gtctcgatat cctacgggac acaatcggac atccgagtga 240  
aaagttatta tcgtttgaat ttgctcagag cttcagtttt aaattacgag cgtttcgata 300  
tattacggga ctcaatcggg catccgagtt aaaagttatt gtccggtgac ttttcttaga 360  
gcttccgttt tcaatttcga gcgtctcgat atatta 396

<210> 10719  
<211> 343  
<212> DNA  
<213> Glycine max  
  
<400> 10719

agctttgaga aaaatcaaac tacaatatgt tttaactcgg atgtcctatt aagccctgta 60  
atatatcgag acgctcgaag ttgaaaacgg aagctctaag aaaagttcaa caacaataac 120  
ttttaactcg aatgtccgat tgagtcccgat aatatatcga aacgctcgta atttataaca 180  
gaagctctga gcaaattcaa acgacaaaaa cttttaactc ggatgtccga ttgagtccta 240  
taatataattg agacgctcga aattgaaaac ggaagctcta aaaaaagtca aacgacaata 300  
actgttgact cggatgttcg attgtgtccc cgttgatatt aag 343

<210> 10720  
<211> 415  
<212> DNA  
<213> Glycine max  
  
<400> 10720

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ggaatagaga aggaggaaa gtgattggag atgccacttc aaggagaaga tgagtcaaga 120  
acaagctcac taccatagga agccatggat aagagcttga aggtaggaga aaatgagtgg 180  
agggagagggc agagaggggg gaacaaaatt tatgcctcaa atgagggtcag aactttgaag 240  
tctaatttct caaatgatca aagttgaaaa aattcacaca caaggcctct atttatagcc 300  
taagtgtcac acaaaattgg agggaaattt gaatttctat tcaaatttat cttgaatttg 360  
aatttgaatt tttggaagcc aaattggagc caaaatttca ctaattatga ttagt 415

<210> 10721  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 10721

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aaagttatag tagtttgaat ttgctcacgg cttccgtatt ccatttcgag cgtctcgata 120  
tattacggga ctcaatcgtg catccgaaga aaaagttatt gccgtttgaa tgtgctcaca 180  
gcttcggcat tccatttcga gcatctcgat atattacggg actcaatcat acatccgagc 240  
aaaaagttat tgaaatttga atctgctcac ggccttggta ttccatttcg agcgtctcga 300  
tgtattacgg gactccatca g 321

<210> 10722  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10722

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agaagaatgt ggcatttacc tgnngtgaaa aacaagagca agcctttact ttgctcaaag 120  
aaaagcttac taaggcacct gttctagctc ttccgtgactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaaggtggg caccctattg 240  
cttatttttag tgaaaaactt catagtgcc cctcaacta cccacctat gataaagagc 300  
tgtacgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aagggaattg 360

tcattcatag tgatcatcaa tcacttangt acatt

395

<210> 10723

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10723

cgcttattcc atgcaactaa tataatatga tagatttgac atatcaatat gataccaata 60

aatatgcaaa ataacaatat gatagcaata catgatagat ctgacataat aatatgagtt 120

tgttagcaca aacacaggaa taaagagaat tctctcaaac aaaaagtaat tggtaaaaa 180

attcttatac atgtaacttc caaactaata aaggcttctc taatataata tgatagattt 240

gacataacaa aatgatacca ataaatctgc aaaacaacaa tacgatacan atacatgata 300

gatttgacat aataatatga gtttgttagc acagacacag gaataaagaa gaattctcta 360

aacaaaaggt gattggcact gaaattctta tacat 395

<210> 10724

<211> 499

<212> DNA

<213> Glycine max

<400> 10724

ttgtatggta ggaggtgtag gacacctcta tgttggttag agcccaaaga aggccttacc 60

ttagggccag aagtgtgaca acaaaccacc gagaaagtca agttaatcca ggaaaggatg 120

aggaccgctc agagtaggca ggaaatttat catgataaga ggaggaaaga tctggaattc 180

gaggttggtg atcatgtatt cttgagagtc actccgtgga ctgggggttg tcgagcattg 240

aatcccgaa aactcacacc ttgctttatt ggtcctttcc aaattcttaa gagagttggc 300

cctgtggcat accaaattgc attgcccccg tctctttcta atcttcacaa tgtctttcat 360

gtgtctcaat tccgtaagta tatccatgat ccatcccatg tgattgaatg ggatgatgta 420

caagtgaagg agaatttgac atatgaaaca ttgcctttga ggatcgagga taggcgaaca 480

aaacacctat gagggaaag 499

<210> 10725

<211> 518

<212> DNA  
<213> Glycine max

<400> 10725

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tttttcaatg ttggaggcaa atcactgtac cttgtttcag acactcccca tgatattttg 120  
agatgtttta gtgccgacaa ctctcccaag ctttcaaact ccccatcttt gataacagcc 180  
tcacttccta tatgtatgct gagtctcctt agttctttca aattctaaag atcagatatt 240  
ctgcagggag tcttttctaga agtacttatg acaaatccct tgagaacttg gagattttgtg 300  
agcttttcaa tccccttttg catgccctcc aaaaagtaac actgggatac aatgagatgt 360  
gtgagatgtt tcattgatga aatataatta ggcagtggtt ccaagttgtg gcaagctttg 420  
agatcaagaa tttctatgct ctcaagttga gcaatggacg gtggaagctc agatattctt 480  
gatatccac gaaggctaag ataaaacaac gtcttttag 518

<210> 10726  
<211> 487  
<212> DNA  
<213> Glycine max

<400> 10726

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agcaagaaat gaagagccaa tgggtgatac atggacagag atgaaaaaga tcatgaggaa 120  
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180  
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
ccgcgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttt acaaagcaat 360  
ccaagtggag caacaattaa aaaggaaagg agtggcttac aggagtttta ccaactttgg 420  
ttcttctagt tggaagaca aaggtaagaa agatgggggc tgggtacttct agtagtttca 480  
cacctta 487

<210> 10727  
<211> 541  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10727

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gaagcgggat gtgccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180  
ccaaggcaac aaggggggttg aggagtatth caaggaaatg gatgtgctca tgattcaagc 240  
aaatattgaa gaagatgagg aggtactat ggctcgatth cttaatggth tgactaatga 300  
tatccgtgat attgttgagc tgcaggagth tgttgaaatg gatgatttgc ttcacaaagc 360  
aatccaagtg gagcaacaat taaaaaggaa gggagtggct aagaggagth ttaccaactt 420  
tggttcttct agttggaaag acaaaggtaa gaaagatggg gctgctactt ctagtagthc 480  
cacacctatc ccataaaaaa ctcgcttaga gtcccaagag gaacccttta aaaggggggg 540  
g 541

<210> 10728  
<211> 307  
<212> DNA  
<213> Glycine max

<400> 10728  
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acgagacgtc ttgccaaaca aagtcaggth aacgataact cgcctatgct ttttcttcca 120  
ttctatatgt agcaaagtca ttgatccagt catgtttgat gagttggaaa atgaggccca 180  
aattatactg tgccagttgg agatgtatth tccccctgct ttttttgaca tcatgattca 240  
cttgattgtg catctgatca gagaaatcaa atgtttgtgg tcctgtttat ctaccgtgga 300  
tgtacct 307

<210> 10729  
<211> 524  
<212> DNA  
<213> Glycine max

<400> 10729  
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atgcctctta agtgcagatg tccaaacctt tgatgccata ttctgacttc atcttctatg 180  
gtggatagac atgtggagga gtagctggtt tcttgggggtg tccataggta acaattgtcc 240  
tttgatctgc tgcccttcat tagaacttca ctcttttcat ttgtcaccaa gcattctgac 300  
tttgtgaaga ttacattgaa accttcatac acagctgact gaagctatat atgtttgcag 360  
tctgttcctt ttaccagcac tactttgttc atactatgaa gtccatcctc aactagcttt 420  
tccattccaa tgaacttttt ctttatagcc atctocaaat gtcacattac tagtgtgacc 480  
gggctcaatg tttataaagg aatcttttga ctccctgtct gtgt 524

<210> 10730  
<211> 444  
<212> DNA  
<213> Glycine max  
<400> 10730

agcttgaagg taaactagag gccacggttt atctggtgag ccaactggcc atgaaacaaa 60  
aatctgcacc tgacgccaca ctctgcggat tatgcccctc tgccaaccac cacacagatc 120  
tttgcccatt tgggcaacaa tctgaaacaa ttgaacagcc tgaagcttat gctgcaaaca 180  
tctaaaaaaa acctcctcaa cctcagcaac caaatcagcc acaacacaaac aataatgacc 240  
tctccagcag cagggacaat cccggggggga ggaatcatcc caaccttaaa agggcaaadc 300  
cttcacaaca acagcgacaa caacaaccac aacaccaacc ctattttcag aatgttgctg 360  
gcgcccagca gaccatacga tctccacca aaccagcaac aacaacaacc acagcctcaa 420  
aaacagcaaa cagctgagag ctcc 444

<210> 10731  
<211> 417  
<212> DNA  
<213> Glycine max  
<400> 10731

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cttgtgtctt cttcatagat agggcatgca caatggccct taacactgta tccactcaaa 120  
ttctcacatg ctggaaagac attaatggta caaaataaca ttgcacacaa ctcgaatgtc 180



acattttaat acccatcaaa cacagcaacc cctcgtccc acaagtgt caagtcttta 240  
atcaagggac tgagataaaa atcaatgaca ttttctgggt gtcttgggcc cgatatcatc 300  
atagacaaca taatgtatgt ttgcttcacg cacaaccaa gaggttaagt gtaaattact 360  
aacaacaaaa gccccaaact gtgatgagtg tttaaactcc cataccgatt ctttcca 417

<210> 10732  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 10732

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aaagttactg tcatttgaat ttactcagag cttcgataat caatttcgag cctctcgata 120  
tattacagga ctccatcaga cacccaagta aaaaagttat tgctgtttga atttgctcag 180  
agcttcagta ttcaatttcg agcgtctcga catattacgg gactcaatca aacatccaat 240  
taaaaagtaa tgggtcattgg aattggctaa aaccttgggc cttaaatcc aagcgtttca 300  
ataattaacg gaattaatcc taccatccga gtaaaaactt attttcgttt gaatttgttc 360  
aaagcttcgg tttttatttc caaagagttg gatataattat ggggct 406

<210> 10733  
<211> 525  
<212> DNA  
<213> Glycine max

<400> 10733

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actaagctca cctccttgag aagcttcctt aagaagattc ataaacaagt tagagcttag 120  
ctacacatac ctgtctaata gctaagctca cctccttgag atgagaagct agagcttagc 180  
tacacacccc ctataatagc taagctcacc cccatgacaa aaaacatgaa aatacaaaaa 240  
aaaagtcctt actacaaaga ctactcaaaa tgccccaaaa tacaaggcta aaacattata 300  
ctactagaat ggccaaaata caaggccag aggaaggaaa aacctattct aatatttaca 360  
aagataagcg ggctcact tagcccatgg gctcgaaatc taccctaagg ctcatgagaa 420  
ccctaggacc ttcccttgga tctctagccc aatcgacttg gagtcttcta cccaatgccc 480

ttgcgggggta ggattgcatc aaataggtaa aaagcgttgg gtctt

525

<210> 10734  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 10734

tcttacaaag catacggctt tctggatgta gatgatgtat atctatacag atggatctta 60  
tatatctata tatctataga tagatatata gatatagata tatagatata gatcatacaa 120  
tgaagtaccg cacgagtggg tatataggaa tccaaatctg ccgaatcact catgttatga 180  
tcttctacat cctaagtctt tccgttcctt catctggctt atgttcttca tggagcattc 240  
aaacggaatg actctatgaa 260

<210> 10735  
<211> 499  
<212> DNA  
<213> Glycine max

<400> 10735

agcttcaaga gtatttaatt ataagatctt gatcaataat ttcatttttt atttcactgg 60  
taagtaattt catagttgat taaaaacatt aagatttcat aaagtatact aaattaaata 120  
ttgaataata taagttgtgt acgtctaaaa ccttagagtt gttgtcacgg ctttgcaatt 180  
aaaaaagata aagataatgg atgcaagtaa ggagatatag gtacccaaca agtaaagaaa 240  
tggaatttgg agttattacg tgcaaaaatt actggtcgga tagttatttt ttctttccaa 300  
atgcgagtac aaaaataaat actatggtac tttattcaaa cctttttcat gttctatcca 360  
gcttatttta ggaattacaa atttgtgatc aattataaat agaagatcaa tgtgaaccag 420  
acagaaataa atagaacatc atgaaaaaaa tcgaaatcta tagaggatca atattttaga 480  
gtaattttga ttactagat 499

<210> 10736  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 10736

tcgtgaagca agctccaatg atgcaagttt cgtgaatcta agtgagatgc ttatgtccac 60  
 atctaataat atttgttgga agtgtgctct tggaaagaac tttacaagaa aatggtacaa 120  
 cagtgtgaaa aatttagcga gggaggctat gattcatctt acagctttca cagtgagaga 180  
 ttacttccca tggttgggtt ggattgatgt tcttactgga aaaattcaga aatacaaggc 240  
 ccttgcttga gcaatggatg ctttgtttga tacggcaatt gcagaacatt tggcttgaaa 300  
 aaaggaaagg tcaacac 317

<210> 10737  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <400> 10737

agccaaatct agatatacct cagaacaata tatttttgtc accacgagat atattgacag 60  
 cggcggatca tctgattgga acgaaattcg gaaagggat acttgacgat ataaatcatt 120  
 tgaaaaataa acgtattcgt tcggcaacaa atctattaca agatcaattt ggattggccc 180  
 tggttcgttt agaaaatatg gttagaggaa ctatatgtgg agcaattaga cataaattga 240  
 taccgactcc tcagaatttg gtgactacaa ctccattaac aactacttat gaatcttttt 300  
 ttggaataca tocattatct caagtttttg atcaaactaa tccattgacc caaatagttc 360  
 aatgggagaa aattgagtta ttcgggcccc ggaggaatga cggggcgaac cgctagtttc 420  
 tggatacgaa atatccacc taatcactat ggacg 455

<210> 10738  
 <211> 519  
 <212> DNA  
 <213> Glycine max  
 <400> 10738

tgccttgccc cttgatatat tagttggact cttttttcac tatgaatgac aaattccttg 60  
 ggataaagggt agtgttgcc tgtttttaaa atccgtacta aggcatacca actccttatc 120  
 ataagttgaa ttagttaagg gtaagaccac ttaacttttc actaaaataa gcaattggat 180  
 ggccttcttg catcaacaca gcccacatcc caacatttga agcatcacac tccatttcaa 240  
 aagaattttt gaaagtttgg caacgcaagt atgggggcat taattagctt ttgcttaaaa 300

acattgaaag cttcttcttg tttctctccc catttgaaac ccacattttt cttgagcact 360  
 tcattgagag gtgctgccaa tgtgcttaaa accttcacaa aatctttata aaaactttct 420  
 taaccatgaa aaactttctca ccctcgggtca cagacttttag gtgtaagcca ttttttgaat 480  
 aagccccata ctttcttctt attaaacttg cacttcctt 519

<210> 10739  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<400> 10739

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 tgatgaaaaa aagctcaaag gtcaatcaaa gaatgagttc aagattcaag actcaagatt 120  
 caagaatcaa gagaagactt aatcaagata agtatgaaaa gggttttttca aaaactaagt 180  
 agcacatgga ttttttctca aaacatgttt accaaagagt ttttactctc tggtaatcga 240  
 ttaccagatt gttgtaatcg attaccagta gcaaaatcaa tttgaaaaag ttttcaaagt 300  
 aatttacaac gttccaattg atttcaaaaa agttgtaatc gattacaatg ttttggtaat 360  
 cgattaccag tgtctttgaa cgttgaaatt caaattcaaa tgtgaagagt cacatccttt 420  
 cacataaaaag ctttgtgtaa tcgattacac tgatttggtta atcgattacc aatgattgct 480  
 tctgaataaa tc 492

<210> 10740  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<400> 10740

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 acggaactct ggcacaagag acttggccat tgccatcttg aaagaatgct aaacatgaaa 120  
 aaaaaggaaa tatgcgaaag aaaatttgaa gaagtttcaa atggaggaat gcaaacttat 180  
 tatcacacca atgaatcata aggagaagtt taccaaggaa gaaggtgttt ataacattga 240  
 tgaggatatt atgggagctc gattggatgt ctaatgtatc tcactacaac aaggccaaac 300  
 attctatttt ctcaaaagaa caaaactaga atttttgttg acaatcaagt agccattgct 360

attgcaaaca atccccgtgtg tcatgggaag actaaacatt tcaatatcac ggtctattat 420  
 ttgataaaaa tgcaacaaag tggagaaggg aacttaattt actgcaagtc taaagatcaa 480  
 ctggctgact tgtttacaaa gtcaactacc 509

<210> 10741  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<400> 10741

tgaatcggac ctgagtgtga aaagttatgt ccatttgaat ttctcgaaag ctttcgttgt 60  
 tcaatgtcga gcacctcgac atattatgcg ctogaatcga acatccgagt gaaaagatat 120  
 gaccatttga gtttctcgag agcttccggg gttcaattcc gagcctttcg acatattatg 180  
 tgcccgaatc tgaccttctg gtgaaaagtt atgaccattt gaatttctcg agagcttccg 240  
 atgggttaatt tcgagcgtct caatatatt 269

<210> 10742  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 10742

ttgtaagggt aaagtctcac caatgttacc tgctcatgcc acaattggta gccgggggta 60  
 tacgaaacat tttgccaac aaagtcaggg tagcgataac tcgcctgtgc tttttcttcc 120  
 atgctatatg tagcaaagtc attgatcctg tcaagtttga tgagttggaa aatgaagccg 180  
 caattatact gggccagttg gatatgtatt ttccccctgc tttctttgac atcatgattc 240  
 acttgattgt gcctctggtc agagaaatca aatgttgtgg gcctgtttat ctacggggga 300  
 tgtaccgggt tgagcgatac ataaagattt taaaagggtg taccaagaat ctatatcatt 360  
 cagaaacttt tattgttgag aggtacattt g 391

<210> 10743  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<400> 10743

agctttgcag tagatgccac tctactctaa attttttaaa gatatgttaa caaggaagca 60  
 taaatatatt catcaggaaa acatcatagt ggaaggaaac tgcagtgttg taatctagaa 120  
 gatccttcca ctcaagcata aagatcctgg gagtgtaact attccttggt caattggaga 180  
 agttaatgtg ggaaaatctc ttattgacct cggagccagt atcaatttga tgccactctc 240  
 catgtgcaga agattgggag agttggaaat aatgcccact cgaatgactt tacaattagc 300  
 tgaccgctcc attaccaggc catatggagt aattgaagat gttttggtca gagtaaaaca 360  
 ttttatcttc cgggtagact ttatggtaat ggatatctct aaagatactg acatccctgt 420  
 aatattggga aggccattca tgttgaccgc aagttgcata tttgatatgg ggaaaaagaa 480  
 gctggatgta tgttttg 497

<210> 10744  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 10744  
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 gatggtgcct cctctcacct cttttccttt ttcttccgct gcatcccat ggtggaaaat 120  
 caccattaaa ggacctcatt gaagctcaaa gatccagcct ccatagaagc cccacaagca 180  
 agcttccatc agaatgttcg aatgcggccc ataataaatt gaaacactca aaattgaaca 240  
 cgaatgctcc aagaaaattc aaatggccat gacttctaac ttcgtatccg attgcaaccc 300  
 ataatatatt tagacgctca aaattgaaca tgaaaggttc gagcaaattc aaatgaccat 360  
 aactcttact ttcg 374

<210> 10745  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 10745  
 agcttttctt ttagcaaagc aaaggcttgc tcttgttttt caccacaggt aaatgccaca 60  
 ttcttcttca ctagctcatt aagaggttat gcaattgtag agaaattatg aacgaacctt 120  
 ctatataagc ttgctaacct atggaggctc ctaatatctc ccacactttt tggggtgggc 180

cattcttggga tggccttgat tttctcagga tccacttgga ccccatctct accaactaca 240  
aaccctaaga aaactatatt atctacacaa aaagtacatt tctctatata tgcatagagg 300  
gtgtttttcc taaggactga aagaactttc ctgagatgtc cctagtgatc atctaagctc 360  
ctactggaca ctaaaatata atcaaaataa aacactacga atctacctat gaaatccctt 420  
agacatgatg cataaccccc ataa 444

<210> 10746  
<211> 508  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10746

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taattctatt catcaggaaa acatcatagt ggaaggaaac tgcagtgttg taatctacaa 120  
gatccttcca ctcaagcata aagatcctgg gagtgtaact attccttggt caattggaga 180  
agttaatgtg ggaaaatctc ttattgacct cggagccagt atcaatttga tgccactctc 240  
catgtgcaga agattgggag agttggaaat aatgcccact cgaatgactt tacaattagc 300  
tgaccgctcc attaccaggc catatggagn nattgaagat gtttttgtca gagtaaaaca 360  
ttgtatcttc ccggtagact ttatgggaat ggatatctct aaagataccg acatccctgt 420  
aatattggga aggccattca ttgtgaccgc aaggtgcata attgatatgg ggaaaaagaa 480  
actggatgtc tgttttgaag aataaaaa 508

<210> 10747  
<211> 379  
<212> DNA  
<213> Glycine max  
<400> 10747

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ctgaaagggt aagaccattc gaatttctcg agagcttccg ttgttcaatt ttgagcgtct 120  
cgatatatta tgtccccaat tcggacatcc gtgtgaaaag gtatgaccat tcgaatttct 180  
cgaaagcttc atctgttcaa ttttgagcat ctcgatatat tatgtccatg aatcgggctt 240  
ccgtgtgaaa agtcttgacc attcgagtga aaagtatatga ccatgggaat ttctcgagag 300

ctttcattgt tcaatttcca accgtttgat ttattattgt tcttgaatag gcattctacg 360  
cgaaatgtta ttaccattt 379

<210> 10748  
<211> 470  
<212> DNA  
<213> Glycine max

<400> 10748

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ggatagccat gatttttctag ggcccacttg gaccccatth ctaccaacta cacacaccta 120  
agaaaactat ataatctaca cagaagggtgc atttctctat attagcaaac aggggtgtgtt 180  
ttcctaggac tgaaagaact tgtctgagaa tgccctaagt atcatctagg ctctactat 240  
acactaaaat atcatcaaaa ttaacagact acaaatctac ctatgacatc ctttatgaca 300  
tgatgcatac gcctcataaa cgtgcttggg gcattagtga gcccaaaagg catcactagc 360  
cattcttaca aaccaaactt ggtcttgaca gcattttttc actcatcaac ctgtttcatc 420  
ctgagttggg cgataaccac ttttaagaac agatttttga aaagaaattg 470

<210> 10749  
<211> 487  
<212> DNA  
<213> Glycine max

<400> 10749

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aacatgaaca aaggtttcag agaaatctat aactttttgt tgattatata ctcaagctac 120  
taacctagct ttgttgcata ctacttttcc ttgttcatcc aacttgtttc tgaagattca 180  
tcttgttcca atgggtgctct tgttttctgg cattggaaca aatgtccaga catcattttt 240  
gttaaaactga ttcagttttt cttccattgt gattatttag tcattttcta tcaaagcttt 300  
gtctatagtt ttaggtttga tttcaaacac atgggtcttg aatgatgac taaatttaac 360  
tccttcagtc taatctcaga tgatatgac ttatggatga aatgaaccaa attccaaacc 420  
ttcatttgaa gtggttgac tgatgattct taaatcaaaa tgaaatatc ttcagactat 480  
ttgactt 487



<210> 10750  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 10750

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 taaaaagga aaaggaata ttgtagccga tgetctttct eggcgtcatg cattactttc 120  
 tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttgga gaaattttta aaaattgtga aaatttttca gaaaatgggt tctttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaaatt 300  
 gcttgtttgt gaagcacatg aaagaggttt aatggggcat tttgggggtcc aaaaaactct 360  
 agaaacatta caagaacatt tttattggcc tcatatgaaa aaaaagtgc aaaaaatttg 420  
 tgaacattgc attggatgta aaaag 445

<210> 10751  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<400> 10751

tcagaaagct ttttatggac ttaaacaagc tccaaagcaa tgggtgtagga ctagccact 60  
 tccttcttga acaaaatttc gagagaggac aagttgataa aatgttttcc attaagaagt 120  
 cctctcataa cactctactc atgcaagttt atgtggatga cataattttt gggtgcacta 180  
 acaaatctct ttgtcaagat tttgtgcaca agatataagg agagtttgaa atctcaatga 240  
 tgggaaagct aaattacttt cttgggtcttt aagtgaacaa aatggaccgt ggaacatttc 300  
 tccatcaagc aaatactgca agtaacctct caagaagttt gagatggaaa aaaaaagca 360  
 aggaggctgc aactcctatg gttactagtt gttaccttag tgtggatgaa aaaggaaagc 420  
 caatcaatca aataaggtat agaggtatca ttggctccct actttactta actgcaagta 480  
 gtttggacat catgtttaat gtttgcattg 510

<210> 10752  
 <211> 435

<212> DNA  
<213> Glycine max

<400> 10752

agctttttaat ggaagtcacg aaaattatgg cccctcagaa gcattaactg gaaaccaagt 60  
tcatgatcgc gtaaaggaaa ttgtaaccgt gtttggcaag tcccagaaga agacatcatc 120  
tccaacaac atgtggaaga aatgctcaat atttttgatc ttccatactg gtctgatcta 180  
tatgtgcact gtctagatgt tatgcatgtg gagaaaaatg tgtgtgatag ttttaattggt 240  
actcttctta acattaaagg gaagacaaag gatgggttga aatttcgtca agacttggtt 300  
gacatgggaa tacgagagca gttgcatccc atatcacaag gtcggcgaac atatttacct 360  
ccagcatgcc acacactgtc aacaacagag aagataagtt tttgtccatg tctgtggaat 420  
ctcaaagtgc caca 435

<210> 10753  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10753

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agggttagcga taactcgcct gagctctttc gtccatgcta tatgtagaca gtcattggtc 120  
cagtcgtgtt tgatgaaatg gaaaatgagg ccgcaattat acaaagccag ctggaatgtg 180  
attctcccc tactttcttt gacatcatga ttcacttgat tgtgcatctg gtcagagaaa 240  
tcaaagtgtg tggctcctgtt tatctacgat ggatgtacnc cggatgatcga tacaataaga 300  
tcttaaaagg gtatacaaag aatctatctc gtccagaagc atctattggt gagaggtaca 360  
ttgcagaaga angccatgga atttggtcat aatacttaga gaaggctaaa catgt 415

<210> 10754  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10754

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agctgcattt cagtgtgtgca atacctcaaa tccagctgct tcttgctcac cttttccctc 120  
 agaaaatgaa atctagtctc aatatgtttt gatcttccat gtgctactgg attcatggcc 180  
 aaactgatag tagatttggt gtctacatac aatctaactg gcctctgaat ntccaccttc 240  
 aattcttcaa gcaaggagtc caaccacaag gcttgacatg cagcatagca agctgctatg 300  
 tactctgctt cacatgagga taaagccacc acttgctggt tctttgaaca ccagcttatt 360  
 gatgtaccca gaaac 375

<210> 10755  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 10755

ataactgaat cttagttctc ttagacttat tttttatcag ctggctgac attataatta 60  
 atgaactcag tggcaatctc tttggacagt agcttctctc gaataaagt acagtcaatc 120  
 tctatgtgct tggctctctc atggaagact gggtttgaag caatgtgaag agcagcctga 180  
 ttatcacaat ataacttcat ttgcaccact ttgcagaatt tcaactcttc cagaatttgt 240  
 ttaaccacaca taagttcaca tgtaaccata gccatagatc tgtatacagc ctgtgctcta 300  
 gatctagcaa caa 313

<210> 10756  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 10756

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 gggcacattt ttgtgggtag accatggcta ttgacaaga aaagtatcca ccatggtctc 120  
 cccatgaaat acccttacct atggaagcaa aaagttctac cttgttccct tgacaccttc 180  
 acaagtggct agggatcaag tacaataaaa actcatatag gatgaggtat agaatagaat 240  
 aaaaaagaag acctactcta tggagaggag gagtgt 276

<210> 10757  
 <211> 367

<212> DNA  
<213> Glycine max

<400> 10757

agcttgtttg cagacatagc ctttttggtg tttatgccac caccggagac atcatcggca 60  
gcggcagcgg tagcggagag caccatatcc ggggtggatgg agccatccat ggagaggctg 120  
tgttggtgtc caaccctagt aggcctttca ttattattat tattattctt attattatta 180  
ttattattat tattagcaat gctgttgtgt tgagggtggag gaggaagagg aagtggagag 240  
gaatcgagtt gatcgaattg aaggtagatg gaaagcaagt cgttgtcatc ggggagatca 300  
acgtcgaatg tgaggtcggc tggtaagggt ataatctccg aatgggcgcg cctgtgccct 360  
ctgttct 367

<210> 10758

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10758

ttaagtatgt atggcaaac tttattactg gtgttcaaga catacaagtg agcttgtaac 60  
aaatgttcta cacttggagt gatcacatgc cagccttttg aacctttacc acgcactcta 120  
tcatcatgcc gagactcagg aagaccaaca ggtttagtct tctctaagta ttctgaacaa 180  
aattcaatgg cttcttctgt aatgtacctc tcaacaatag atgcttctgg acgatataga 240  
ttctntgtgt acccttttaa gatcttcatg tatcgctcaa tggggtacat ccaccgtaga 300  
taaataagac cacaacattt gttttctctg accagatgca caatcaagtg aatcatgatg 360  
tcacagaaag caggggggata atacatcta 389

<210> 10759

<211> 426

<212> DNA

<213> Glycine max

<400> 10759

tatgctgcaa acatttacia tagaccttct caacctcagt agcaaatca accacaacag 60  
aactattacg acctctccag caacagatac aacctggat ggaggaatca ccctaattctc 120

agatgggtcta gccctcagca acaacaatag aagcctgctc cttccttcca aaatgctgct 180  
 ggcccaagca gaccatacat tctccacca atccaacaac aacaatagcc ctagaaacag 240  
 ccaacagttg aaggtcctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300  
 cagaacacgc agtttaacca agagaccata gccctcattc agagcttaac caatcagatg 360  
 ggaacaatgg ctacacaatt gaatcaataa cagtcccaga attctgacaa gctgccttcc 420  
 caagct 426

<210> 10760  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10760

aagcaagaaa ttaggtgcat atagagttac atacgtcttg gaattgatac atacggacat 60  
 ttgtgggtca tttcatacat cttcatggaa tggatcatcaa tttttatat cattcataga 120  
 cgattactcc aaatatgcat actntatttc ttatacatga aaagtcacaa tctttggatg 180  
 tgttcaaaac atttaaagtt gaagttgaaa atcaactcaa caaaagaatc aagagtgtta 240  
 gatctgaccg tgggtggtgaa tactatgggt gatatgatgg ttcangtgaa caacgtccgg 300  
 ngccttttgc caagtaccta gaggaatgtg gaatcgtccc acagtacacc atgtcagggg 360  
 cacctagcat gaatgatgtg gctaaatgac gaaacaaaac tottaaggat atgg 414

<210> 10761  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 10761

agcttacttg gaaatcatta ggtggaacct ctttaagttgt gtgagcacta tgtctatagg 60  
 aagaaccatc agatgaaact cccaacagtt gtgcacacta taaaagccat attgggctat 120  
 gtccattctg attactaggg gccttcgaga gttccatcac taggcagagc aaggcacttc 180  
 ttctccagca acgatgggta ctccaggatg acatgtgtat ttacgataaa acaaaaatct 240  
 gaagctttca aatgttttaa gcattggacg attgttatga agaatacaac aggaatgaca 300  
 atgaagtttc ttaggatgga caatggcttg gaattttgtt ctacaaaaat caatgagtta 360

tgtaaagatg aaggcatggc aagataatgt atcgtatact atactccaca 410

<210> 10762  
<211> 311  
<212> DNA  
<213> Glycine max

<400> 10762

agcttataga tgaactacat ctgtatgact cttacggatg aagttcatcc gtatgaagca 60  
tacagatgta gtacatccat atgcattggg tttcttccag aatatttatt aaattttgaa 120  
aacattagat gtaataacat tattaatatg ttttaattctt attacatatt tttgaaattg 180  
tggataatth atctattaca aattatttat agtgtaagta aaagattaaa ttatttaggt 240  
acaataattg aattttatttt aactagtaaa atgtctaatt acgtgtagt tatagttttc 300  
tatgtttttt t 311

<210> 10763  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10763

acttagttaa aatatctgtt ggctgggtcan ttataatgat gaactcagtg ataatctcct 60  
tggacaatag tttctctcga atgaaatgac aatcaatctc tatatgttta gtctctcat 120  
ggaagactga atttgaggca atgtgaagag ctgcctgatt atcacagtac aacttcattt 180  
gcaccacctc acaaaatctc aactcttgga gaaagtgttt aatccacata agttcgcagt 240  
taaccatagc catagatcga tattcagcct ctgcactgga tcgagcaaca acggtttgtt 300  
tcttgctctt cctatagata acatttcccc caataaaaat acaatatacct gaggtagatc 360  
tcctgtctat gggacaagca gcccaatctg catcacaata tccagagac 409

<210> 10764  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10764

ctcgacccgg atctgtaacc tcttgacgct gcagcttaca aggacccgaa atctttaagg 60  
 agcctcagag tacaatcatg tattgacccc ccctcctagc tgctccaagt actaagcata 120  
 atatcgtttg acaatatcaa cgttcatggg tgaagtcaac tcttcatcat ccatgctggc 180  
 aagcaccagt gctcctcctg agaatgcttt ctttacgatg aaaggccctt tatagtingg 240  
 agcccacttt cccctattgt cctttagggc ttgggatact ttcttcagaa cgagggtcccc 300  
 ctagttgaat ttgcataggc ataccttctt gttgaaagca ttcttcaccc atctctggta 360  
 cagatgcccg tggctcatag ccgccagacg cttgccttct ataagattga gctgattaaa 420  
 gcgtgcttgg gctcactctg attcttccaa cccggactct tgcagaatc 469

<210> 10765  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10765

agcttggtta ccccatgttt gagttgctta caatagagtt gttcatagca ccactaatta 60  
 ttctcctttt gaagttatnt atggtntntaa cccactaact cctcttgatc ttttgcttat 120  
 gcataatggt tctgttttta aggataaaga tgggtcaagca aaggcagact atgtgaagaa 180  
 gttcatgag agagtcaaaa atcaaattta gaggagaaat aaaagttatg ctaaacaagc 240  
 caacaaaggg agaaagaagg ttgtcttcta acctggagat tgagtttggg tgcacatgag 300  
 aaaagaaagg tttccagaac aaaagatatc aaagcttcaa ccaaggggag atggaccatn 360  
 tcaagtgctt gaaagaatca atgacaatgc ttacaaagtt gagctctccg gtgagtataa 420  
 tgttag 426

<210> 10766  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10766

agctttctca agctggattc tagattgtag catagctgca ttaagaaata gtaataaata 60  
 agcaacattt agtattgttc ccatgggttc agtaggcagc ctatatatga tattatatca 120

aattatacct cttcccaagc ggaattttct agacggagat atatagttaa tatgatacag 180  
 cctggcctta tatagctctc tatctctgtg ggactgtggg ataaccagtt aaggatctgg 240  
 taatcaaaga aaaacataaa taaaacacca ttcaaaaaac agtgtagtga aatagtttat 300  
 agcaatttca aggcagcaat gaagtacctg tgatcggaga gcatggngga aatcatttgg 360  
 agccttgcca aatagtttga aaacaattcg atctgtacga ctctgtaaag agaaagc 417

<210> 10767  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 10767

taagtctacc tgcggcatgc aagcttctat tttaattacg agcgtctcga tatattacgg 60  
 gactcaatcg gacatccgag taaaaagtta ttgtcgtttg aatttgctta gtgcttctgt 120  
 tttcaatttc gtgcgtctcg atatactacg ggacacaatc ggacaccgga gttaaaagtt 180  
 attgtcgttt gaatttgctc agagcttcta ttttaaatta cgagcgtctc gatataattac 240  
 gggactcaat cggacaaccg agtaaaaagt tattgtcggt tgaatttgct tagagcttct 300  
 gttttcaatt tcctgctctc cgatatacta cgggacacaa tcggacacc gagttaaag 360  
 ttattggtcg ttgaatttgc tcagagcttc tgttttcaat tacgagcgtc tcgatataatt 420  
 acgggactca atcggaca 438

<210> 10768  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 10768

tcaaccttgt tgggatgggt ggtgctgctt gttttacagc tattgatctt gcgagagacc 60  
 ttctggatgc ttatccaaga acttatgcac ttggagttag cacagaagca tgtagctcaa 120  
 catggtacag tggccatgat aatggcatgc tgcttcccaa tggcttggtc agaatgggag 180  
 ctgcaaccat catgctctga aactttcacc tatatagatg gtgcgccaag tatgaactca 240  
 aacacgcatt tctcgatcga atttgactcc tctaaagtga aatgagaaag caattatatg 300  
 tggactgtac ttctactcc aatttaaagg aaaaaaactt atcagcagtt ctttgtgttg 360



gtattctcta attagaagag gagtgttata ttactaatct at

402

<210> 10769

<211> 397

<212> DNA

<213> Glycine max

<400> 10769

gcttagctct agaggggatg gaccttttat tgtttggaga ggatcaataa caatgcctat 60

aggttggatc tcccagaaga gtttgagatc agcaccactt ttaacatttc tgatttaatt 120

cctttttagt gtggagctga tattgaggag gaggaactaa cagatttgat gtaaaatcct 180

tttcagggga aggggataat gcaatgctcc ctaggaaagg accagtcact agagccatga 240

gcaagaggct ccaagaggat tgggctagag ctgctgaaga aggccctagg gttgtcatga 300

acctcagggt agatttctga gcccatgggc caagtttggg tccaattctc tttgtacata 360

ttagactagg atgtcattat atttgatcat tgtattt 397

<210> 10770

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10770

agcttgccac cacggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60

agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180

cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240

caaattattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300

atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcaciaag 360

caatccaagt ggagcaacaa ttaaa 385

<210> 10771

<211> 287

<212> DNA

<213> Glycine max

<400> 10771

aatacaagat tattttcaacc aacaaagtct tgattcaaga tttcttcatg atcaagcctt 60  
gccgcaaaat gaaaagaatt caagtcaccc aaagcacatg taatcgatta ccaatacatg 120  
taatcgatta ccaaagagga ttttcaagga atatcgccaa cagtcacatc ttatcattcg 180  
gattttaatg gccatcaaag gcctatatat atgtgtgact tgggacgaaa ttacagagag 240  
tttgcttggc aaaatgttta tcctctctca aagaaatgaa gagattc 287

<210> 10772

<211> 395

<212> DNA

<213> Glycine max

<400> 10772

agtctcatga ttgtctctgt gctcatgcaa caattgttag ctgtggctat acgagacatc 60  
ttgccaaaca aagtcagggt agcgataact cgctgtgct ttttcttcca tgctatatgt 120  
agcaaagtca ttgatccagt catgtttgat gacttggaaa atgaggccgc aattatactg 180  
tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca cttgattgtg 240  
catctagtca gagaaatcaa atgttgtggt cctgtttatc tacgggtgat gtaccgggtt 300  
gagcgatata tgaagatctt aaaagggtat acaaagaatc tatatcgctc agaagcatct 360  
attgttgaga ggtacattgc agaagaagcc attga 395

<210> 10773

<211> 474

<212> DNA

<213> Glycine max

<400> 10773

tatacaagaa tgaagctccg ataccactag ttaaacaatgt ggccttagat atcttaagaa 60  
tatgggggtg aattaagata tcaaagacta ctcccctatt aaaattgtaa ctatctatct 120  
gaattattaa tgcaccctta atttgaatta ctaaaaagac aattcaaagt aaacttcttt 180  
aatgcaaaaag ataaataaca ataatgaaa gaagttaaat ggaagagaga atgcaaaactt 240  
agttcttata ctagttcggc cagccctgt gcctacgtcc agtctccgag caaccgctt 300  
gagatctcca ctatcttata aaatgtcttt tacaaaagtct gaaccacaca ggaataaccc 360

ttcccttgag tatagaattc cttagaactt aagagatcct cggtcctta atcaatctct 420  
tgaatatgaa gaagaagaag aagaagaatt ctctccttaa gagaaagata ttac 474

<210> 10774  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10774

ttcagtactc ctaacattca gaaagagaaa caatccttca ctgttccaaa cttataaatt 60  
ataatattta gctaacttat aagataatth taccaatata tcctagatta tttgtncctta 120  
atttttatta aacataagag aacccatata tatattgtca aaaagactac atatatngac 180  
aaaaaatgcc caatatatat gactnttatc taaaataata ataataatac tgtttcttta 240  
aaattcactt taaatctcat atatttatcc cacaattaga tttcttcaaa tctgatggaa 300  
cttttggtta acacagttgt tggtttggtt gtctcttaaa agatgaaaat gtagatataa 360  
tatttaggta atgaaacata gctacaactc actgtatctt tattataaat aaaagcaaaa 420  
gttgagagta agaatagtgg gtctaaaa 448

<210> 10775  
<211> 216  
<212> DNA  
<213> Glycine max  
  
<400> 10775

cagcataacc atgtatgtca agccttacat gggtgtagtt cagagtaaca atgtgtctgc 60  
tgaccaaata ggccttgcat aaaagggttag ctgcatttat tcttcatggt ggctatthtt 120  
cagttcaatt ataggaaacc agtggattat tattatctgg aatgtagatt gaaaagcatg 180  
agcttctaag ataagacgtg ttactactth atatta 216

<210> 10776  
<211> 470  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10776

ctaagcttcc aagttttaag ttcttcctca taactgtcct aagcaaagtt ctcaaagtcc 60  
tattaacaac ttccgtttgc ccatcggttt gtgggtgaca agtggttgaa aataacaatt 120  
tagtgcccaa cttgctccac aaagtcctcc aaaaatgact taggaactta gagtccttat 180  
cactaataat gtcctttggc aaaccatgga gtctcacaat ctctttgaaa aacaaattag 240  
ctacatggga agcattatca actntttttac atggaataaa atgagccatt ttagaaaaacc 300  
tatcaacaac cacaaaaatg gaatctctac cattgcttng ttttggcagc cccaaaaaca 360  
aatccatgga taaatcaatc caaggatact ccggaattgc aatggagtat acaatccatg 420  
aggttntacc ttannacttg ccttntttaca tacaatgcaa tgttcacaaa 470

<210> 10777  
<211> 306  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10777

caatttagca acttccgaat atatatgaat tggcaagttt aagagactca tatttacaag 60  
gatgaaaatt gatgtgcaag cttcttggtta aacattgcat gtgatttggg ccgcgttcag 120  
tgtaacattg catgttacgt taaataaata taacaaattc atttgataat aaattaaatt 180  
ttagatatat gatgagactt ttatgattaa atatataaaa atcaataact ttattaatta 240  
aaataatggt ttgaaagaaa atacaaatga tctcttatnt attcattaga tacgaaataa 300  
aataga 306

<210> 10778  
<211> 436  
<212> DNA  
<213> Glycine max  
<400> 10778

gtcctttctt ccatggctta ttccctagtg aatggtgcct cctctcacct cttctccttt 60  
gtcttccgct gcattctccat ggtggagaac cacaattaaa ggatctcatt gaagctcaaa 120  
gattcggcct ccatagaagc tccacaagca agcttccata aaaaaggcaa gctatctatg 180  
cggtttgaca atggaaggta aaggaaataa gctatgaaag taagcaagaa atgtaaaacta 240  
tgcgaatcct aaaagtatct ggatgaccac atttaagggt cccaacaaaa cactcacaat 300

cctaagggaa aattacctaa aattattaca tataaatgga agtaggatga cctattggag 360  
gctcccaact tacttccaat gaaagacctt tttgttaca aattgaatgc aatgaaagta 420  
agttaattct caatta 436

<210> 10779  
<211> 319  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10779

cacactaata tataccttat aatcaatcaa ggaaacacat ngacttcacc aacttgggtct 60  
aagagaaaac aaaatatcac attttattct ccttatatta attttctcta gcattcaagc 120  
aggatggatg aaatggagaa aagcatctgg ggtgttatgt gatgcaaagg taccgatcaa 180  
gcataaggga aagatttatc ggactgcggt aagaccggcg attatgtacg gaacagaatg 240  
ttgtgcggtc acaagccaac atgagaataa agtacgtgta gcggagatga ggatgttgct 300  
gtggatgtgt ggaaagact 319

<210> 10780  
<211> 234  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10780

ttaaaaatta ttcnaatagt gaatattatt taatgggtatt tgtaacatat tatttatcta 60  
taaaacaaat tctaacatat agtatgtgaa tgggttataa gacgtttaat aagagataag 120  
aaataaaaag tattaattca tattactaag aataaatttt aattaaaatt aatgctaaca 180  
ataaagatga aataaattaa ttatattagt taacatttgt cacaaaaatt attt 234

<210> 10781  
<211> 446  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10781

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 tgcagtaagt tagaaaagtt ccaagcaagc tacggtagca tattcaacta ctgaagcaaa 120  
 atatatagtg gcaagtgaag ccgctaaaga agctgtttgg atgaaaaagt tcacctttga 180  
 acttggtgtg gttccttcaa tagaagagtc ggtcccatta ttgtgcgaca ataatggggc 240  
 tattgctcaa gcaaaggaac caagatcaca ccagaagtcc aaatatattt tacgaaggta 300  
 tcacttgatt agagagataa tagaacatgg tgacgttaag aatgaaaagg tagatggaaa 360  
 ggagaatgca tcagatccct tcaccaaggc acttggcana agagagttng acaagcacan 420  
 ataggaatta tgaatgaagt tcatga 446

<210> 10782  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10782

gctatgttnt aatgtcgagc ttcacgatat actacgggac actatcggac atccgagtaa 60  
 taagttattg tcattataat tttctcggag cttgcgtttt caattacgag tggctcgata 120  
 tattacggga ctgaatcagg catccgagga aaacgtgttt gtcgttagaa tttgctcaga 180  
 gcttttgttt tcaatatcaa gcgtctcgtt atattacggg acttaatcgt acatctgtgt 240  
 taaaatttaa tgcgggttga atattctacg agcttctgtt tccaattaca agcgctcaa 300  
 tatactacgg gacacaatcg gacatacgat ata 333

<210> 10783  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10783

ctacaaaagg agagagcaag agatgaagag ccaatgggtg atacatggac ggagatgana 60  
 cagatcatga tgaagcaata tgtgccggct agttactcaa gggacttgat attcaagctc 120  
 catagactaa cccaaggcaa caaggggggtt gaggagtatc tcaaggatat ggatgtgctc 180  
 atgattcaat catagattga agaagatgag gaggtaacta tggctcgatt tcttaatggt 240

atgactaatg atattcgtga tattgttgag ctacaggagt ttattgatat ggatgatttg 300  
c 301

<210> 10784  
<211> 457  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10784

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tgacattcac cacagattct gccttcttct attttcagaa tgggaatgcc tctaacagca 120  
cctttgtcaa tgattntctt catgcctctt aagtgcagat gtccaaatct ttgatngcca 180  
tatttgactt catcttcttt ggagaataga catgtggagg agtaactggg ttcttgaggg 240  
gtccataggt aacagttgtc ctttgatctg ctgcccttca ttangacttc actcttctca 300  
tttgtcacca agcattctga ctntgtgaag ttacattgaa tccttcatca cacaatngac 360  
tgatgctgat caagttcgca gtcagtcctt tcaccagcag tactttgntc agactangaa 420  
gtccatcatg gactatgctt tccattccag tgatctt 457

<210> 10785  
<211> 374  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10785

gagcgattcc tttcttctta tcatntctt catgttgatt caatctcatt aattccattt 60  
catgttcttg taactttcca aacaaagtgg caagagacat gttagataga tctcgtgatt 120  
cagtaatgat tgttacctta ggttgtcatt ccctgcttaa gcattctaaa actntattta 180  
taagatcttc atttggaaag aattttccta aagatgtaag atgattaatt atatgagtga 240  
acctctttcg catgtcttgt atggtttcac ttggattcat tctaaataat tcatattcat 300  
gaatcatttt atntatccta tatctttnta catctgttgt accttcatgt gttacttgta 360  
gggtatccca cata 374

<210> 10786

<211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10786

accgcgatct caagtcaccg cggctgcagc tgaggcaact gatgcatngg taactgggta 60  
 acccagctgg ccttgaacca gaaatctgta cctgtcgcaa gggctctgggtg gttgtgctcc 120  
 tctgtcgacc accatacaaa cctttgccct tccatgcagc aacctggagc aattgagcag 180  
 cccgaagctt atgctgcana tatttacaat agacctcttc aacctcagca gcaaaatcaa 240  
 ccacagcaga acaattatga cctctccagc aacagataca accctggatg gaggaatcac 300  
 cctaattctca aatgggtctag ccctcagcaa caacaacaac agcctgtctc ttccttccaa 360  
 aatgtgtgcta gcccaagaag accatacant tctncaccaa tccaacaaca gcaacaaccc 420  
 cagaaaca 428

<210> 10787  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <400> 10787

ctgcagcttg atgcacattt gagaggtaat gtacaacgat atgatgcgct ccatgagagg 60  
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 ggtgttccta gacataaccg aattgatggt attaaactca acattcctcc atgtaaagga 180  
 aagaatgata cggaggccta cttggagtgg gagatgaata tagagcatgt tttctcatgc 240  
 aacaactatg aggatgacca taaggatgaag ctggctgcca cggagttttc cgactatgct 300  
 ctagtgtggt ggaacaagct actaaaggag agagcaa 337

<210> 10788  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10788

agcttatctc agatcagttt atgaacanaa taaacctcct tataaatata tgtttcactc 60



caaccaaagt catagatngc acattgttca gtccctcaag ctcatgcaaa gatgggaaat 120  
tacaaatatt tacattcttt caatttgcac tcaaacaac acaaacacac atatatatta 180  
ggtggaacaa tgtaatatata atttgaatat tgattacata tataactatct tccatgatga 240  
tataataact tgccttgtga caatatatac caacaaccca gttgttttaa tatttcatca 300  
naaatgcttg catggttcca ttcttttctc tcttcacata ctccaaataa ttcgtatgaa 360  
ttatccctat aactagcctg aatntagtct tccatctttt cccatggtga taccatgtca 420  
agtgtcggg ctctctaga acagcaatat 450

<210> 10789  
<211> 207  
<212> DNA  
<213> Glycine max

<400> 10789  
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gcagccaggg aatgatattg atgtgtatct tacaccatta atcgaagact tgaaaaaatt 120  
gtgggaagaa ggagtagatg tgtgggatgc aaatgtgcag catacattca cattacacgc 180  
aatggtgttt tgtactatta atgattt 207

<210> 10790  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10790

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tcttcatgat ttgtgtacat agggactcat taagtaggtt tgttcttaat ttttgtttca 120  
atacaaaactt aagtgtcat atgggacacc ttangtttgt cataatatct tgtaggaata 180  
atcaacatga aaataaagaa naaggatatgt tntattcaat tactttcctt aactnttaaa 240  
ataatgatca agggcttccc atggaccctg agagaataat ggtcattcct gagggccta 300  
ctccaccatg tataaggac atttgnngct tcaatgactt aacanacttt tacaataggt 360  
ttgtctcata tttttctata cttgtagcac cactcattga gtnggtaaag aactatgttc 420  
tctcatggga 430

<210> 10791  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10791

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 gctctcgaga cattcgaatg tgcataacat ttgcacaaa tgtccaattc tgggacataa 120  
 tatatcaaga cgctctaaat tgcataggcg aagcactcag gaaattcata tggtcataat 180  
 tattcacatg gatgtccgac tcgggaaaat aatatatcgt gatgctctaa attgaacaac 240  
 gagagcta 248

<210> 10792  
 <211> 188  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10792

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 agctaattcca tgagctgcac cctgngcaat cttgagtctt acatcccatt ttagagctga 120  
 agttccatcc tcactctcat gcagccaata gtcaaggctt tcattctcca agtaggagta 180  
 aataaaca 188

<210> 10793  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
 <400> 10793

tatgcgcaca cttctgtacg aacgttcact tgcacatgac attattatat ctaatatata 60  
 tgcaccata tacaatcatt gcaccttcgt tacctataat attcacatgt acttccatgg 120  
 tgtatttggt atctacatca cacacatttc ctttgctaaa ttcacatata tgcatactct 180  
 aagcactgtg gctatcaaaa attgcatacg tgcacatctt ggtattttctc atacctatac 240  
 atacacaaac tatatgatga atcttgacta tctacacaat aaggcgctac atttcatgct 300

attctcaagt gtttgtacta cctaaagccg catgcaaatt gaagtat 347

<210> 10794  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10794

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 acaagaatga cttgcctagt gagtataatg taagtgccac tctcaatgtg tctgatctat 120  
 ctctntntga tgcagatgga ggagccttg atagaggac aaatcctttt caagaacgat 180  
 ggagtgatga ggacataacc aaggaccatg aagcacttga aggtcccatg accagaggca 240  
 gacttanaca agcccaacac gtcatagaga caaagctggc catttgtata gctgccattg 300  
 atgatgattg aaggcccaag tgcagaaaga tgaaagccca naggcagagg cactaccaag 360  
 actact 366

<210> 10795  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10795

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 agtagcatgt actatgtcgg atctaccttc ctttgggatg acgagaataa ttttcccgaa 120  
 atcacctcca aacacaacaa cttttccacc aaatgaacca ctgtcagaat tagacatgca 180  
 catgatgtca ttcaatgtn tatctaagtc ttcataacaa acttatgagc cataggagcc 240  
 tcatcctata ntaatcaatt gattgccttt aacaattcaa cttgttctgt accttggtgg 300  
 atattacatg tggagttgtc caatataggc accatgaata gc 342

<210> 10796  
 <211> 360  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 10796

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cctcttctcc tttgccttcc gctgcatctc catgantgaa aatcaccatt gaaggacctc 120  
attgaagatc aaagatccag cctccataga agctccacaa gcaagcttcc atcaagttat 180  
gaccatttga atctctcgag atcttccgtg ggtcaatntc gggcgtctcc atatgtcatg 240  
tgcctgaatc ggacctnncg tagaaaaatt atgaccatnt gaacttctct agagcttcgc 300  
ggtgttaatt tcgagcttct cgatatctga tgtgcctgaa tcggacatnc gagtgaaaag 360

<210> 10797

<211> 304

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10797

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gaagctctcg agaagatcta atggacatca acttttactc gcatgatcca tgcaggcgca 120  
taacatattg agacgcttga aaatgaacaa ctgagtttct cgagaaattc atatggtgat 180  
aactcttaac tcgcatgtcc gattcatgcy cataacatat tgagacgctc gaaattgaac 240  
aacggatggt ctcgagaaat ttagatggtc ataacctttc actcttatgt gcgatacacg 300  
cgca 304

<210> 10798

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10798

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tgctttgctg atggcttctt cccgttccaa gcttcaattg gagtcttgct tcttacagac 120  
ttagttggac atatgttgag tatgtaaaca gcagtgtaga ctgcttcagt ccagaatgtg 180  
ttaggtagtc ccttctcctt gagcatcgat ctagctatct ccataactgt gcgattcttt 240  
ctctcgaca ctccattctg ttgaggagaa tatgcgacta taagttgtcg ctctatgcct 300

tcatcctcac aaaatattta aactcgcgag aggtgtactc ttgcccga gcacttctta 360  
 agtactttat cta 373

<210> 10799  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10799

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 tggcatcatt attggcgcta aactgctgng agttggaggc catcttctca attaaatttc 120  
 tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
 ggtgagggca actggcacat agtttcttaa atcgctccca gtactcatatc aggtctcttc 300  
 cactgagctg tctaatacct gagatatctn tctgatggc tgtggtcctg gaagcangga 360  
 aaaaatttct aaaatactct cttaagtcac ccagctcgt gat 403

<210> 10800  
 <211> 232  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10800

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 tatcgagcgt ctgtatatgt gatacgctg aatcgaacat ccgtgtgaaa agttatgacc 120  
 atttgaattt ctcgagagct tccttggttc aattccgagc atctcgacat attgtgtgcc 180  
 cgaatctgac cttcgtgtga aaagttatga ccattagaat ttctcgagag ct 232

<210> 10801  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10801

ggatganagt gcacaactcc tacttggtgt tatgatgatg gagaagcagt acttcttgga 60

cctgaaatgc tacaacagat taacgaacaa gtgaagttga ttcgagagaa gataaaggca 120  
tctcangata ggcagaagag ctattatgat agaaggagga agccactata tnttcatgaa 180  
ggagaaccat gtgttttgaa ggtttctccc ttaaccggag tcggaagggc tcttatagct 240  
aggaagttga cacccaagta tctaggtcca tatcanaatt tgaagaagat agngcctgta 300  
gcttatcata tcgccttacc tccgagttta tcgaatntgc attctgtgtt ccatgtctct 360  
caactgagac ggtacaacc agatccatca catatacttg cagtggga 407

<210> 10802  
<211> 371  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10802

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tacatatatt acagtatgag ttacaggggt ttttcaagtt gtattaatat tagtctaatt 120  
aaaattagnt ttctaaatta agagaacctt tttcacaatg agaaatttgt attcanagat 180  
attcacagag atagttaatn tactttcttt ttagctagca ttatattaca tataaagttt 240  
ccttatatgt aagtcaatat attaaatgac tataagaaat ctggacttat aaatggagta 300  
atggatatat gatatagttg tgcattatta tgataagttg gaacattaat aattgacaca 360  
agtgataatg a 371

<210> 10803  
<211> 495  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10803

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gggggggttga attaagatat tccaaactgc ttccccaatt aaaaatctat ttcaacttnt 120  
attcaagtta tgaattccct taatgacaat cttcgtaaatt attaatcaa ataaaacaat 180  
ttgaatatga atataaatca ataataaata aaggagatta agggaagaga gaatgcaaac 240  
tcagttttat actgggttcgg ccacaccctt gtgcctacgt ccagtcccca agcaaccgcg 300

ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca aggacaatcc 360  
 ttcctttgtg tttagaaatc cntacaaca agagactcac agtctcttaa tcccttagag 420  
 aatgagaaga agaagaagag atctctctta naagagatgg gatttacaga atgagcactc 480  
 aaataattcc ttatg 495

<210> 10804  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10804

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 gcgcaaaatc tcttgaacta agaagatgtc gtccatcatc tttctgttct taatgaatag 120  
 cagttgagtt tcccccaatta tatgtctaag cacttaggct attgcggtgg ccagaatttt 180  
 agacacaatc ttgtataaca nattacagca agatatgggt ctaaaatgggt tacctgngag 240  
 gcctgggtcat gcttatgaat aacgcaatat agcatgggta gctgcttaga attgttcagg 300  
 tgaaaagaatc attaccgcac aaagaatcat accaatgtat ttaagcctct gaagataaac 360  
 atgaagcctc tgccaggagc ttatgtatca tcacaaat 398

<210> 10805  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10805

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 tgcactactg aatatggtgt gtatgttaaa ggagaaagtc tttcagacat cctcatagcg 120  
 tggttatatg tggatgactt gttgatagca agaaaagatt tcaatgctat ctcgacattc 180  
 aagcaagaga tgaaatctga atttgaaatg tcagatcttg gagaattatc atattttctg 240  
 ggcatagagt tcaagaggac aaaggctagg tattttattc accanagcaa atacacaact 300  
 gatgttctaa agaggtttca gaatgttgac tgcaactcag tttcaactcc tggtgaaact 360  
 agtgctatgc tggatcaatc anggctgaaa caat 394

<210> 10806  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10806

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 ccactctgtc gtcatggtga gactcaggaa gcccaacagg tttagccttt tgaatgtagt 120  
 ctgaacaaaa ttcaatggct tattctgcaa tgtacctttc aacaatagat gcttccggac 180  
 gatgtagatt ctttgtatac cctnttaaga tcttcatgta tcgctcaacc ggttacatcc 240  
 accacaaata aacaggacca caacatttga tttctctgac cagatgaaca attaagttaa 300  
 tcatgatgtc aaagaaagca tgaggaaaat acatctccaa atggcatagt ataattgcgg 360  
 cctcattttc caggtcatca a 381

<210> 10807  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10807

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 ttcacttttg gttatagatg acttgcacca cggttgaact cactgttcaa tangtggaga 180  
 agttgaggga aatgagtgca ctttatgaaa ttgtcaagga aggtatcaac atcaaggaca 240  
 ttcaatgggc acagcactga ttattatcaa gctctcagaa tgcaatgcaa gtgatgggaa 300  
 gcaattgtga ttgaactcca gacgtagctg ccaactcttg aattgcagat tcttcgaact 360  
 tgctgattat ntagtaattt gtatcttgag gttacattac aattaanaat ttaccctgtc 420  
 agagctattt attangtata caccatctgt ttcaatgatt ggtagttttg cttgtcagcg 480  
 atgtttatg 489

<210> 10808  
 <211> 300





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 ttaaattgatt ctatcttata taanaatgct gngtttgagt tttaatttat tntatggatg 360  
 aagtgattta acttatttat gtggtagaaa atatttctta ctatagtgtg tgatagtctc 420  
 ttatagatat cgactactca cactaaaaaa ctattaa 457

<210> 10811  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10811

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 ctgagccaat ccaaacgaca ataactttnt actcggatgt ctgattgtgt cccgtaatat 120  
 aacgagactc tcaaaataga atgttgaagc tctgagctaa ttcaaacgac aataactttt 180  
 aactcggatg tctgattgag tcctgtcata catcgagacg ctcgannatg aatgttgaag 240  
 ctctgagcca attcaaacga caataactnt atactcggat gtctggatga ctctcgtcac 300  
 atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaaacy acaatnaact 360  
 tttactcgga tgtttgattg agtccagcat atatcatagc ctcgaaaatg atgttg 416

<210> 10812  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <400> 10812

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 caagagaaga aatcaagaag acttcacaag ggaagtattg aaaagatttt tcaaaaaaaaa 180  
 caaacatagc acaattttgt ttttcaatag agtttttctc aaaattttct aagttaccag 240  
 agtttttact ctctggtaat cgattaccag tggcaaagct tgatttcaaa agcttttaac 300  
 tgaatctgca acgttccaat tgatttttaa atggtgtaat cgattaccag tgtaacttaa 360  
 cgttgaaatt caaattcaat tatgaagagt cacatctttt cataaaatgc tttgtgttat 420

cgattacatg gttttggttaa ttgattacca gtgacaagtt ttgaataaaa agtccagaga 480  
 tgtaactcct ctaatgggtt t 501

<210> 10813  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <400> 10813

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 ccatataaac ttcttcaaac aaatctccat tcaaaaaagc attattaaca tctaataagga 120  
 gaaggcacca gtttctagca gtagcaacac agagcaaaac tctcacagt gtaagcttga 180  
 caactagaga aaaagtataa gagaaatcga ttccagcttg ttgagtatac cctttggcaa 240  
 ccaatcgagc tttgtatcta tccacagagc catccatttt atatttaact ttatacacc 300  
 atctacaacc tatacaatgc ttatcaagt gtaagggaac aagtcttcag gtggaatttg 360  
 ttggacaagt ggcctcaata tcttaagggg aggggggatg aattaagtct tacaaaattg 420  
 cacttagaac cttattaaat ctcaagtgcc caggttgatt gcattcatag cattttgggg 480  
 gctaagagga attttctcct tccttctttg gat 513

<210> 10814  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <400> 10814

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 caaaaggctt gggctagagc tactaaagaa ggcctaagg ttctcatgaa ccttaaggta 120  
 gatttttgag cccatgggtc aagggttgat ccactcttct ttgtaaatat taaaataggt 180  
 ttttcttcg tttgggtctt gtattttggc cattctagta gtataggggt ttagccttgt 240  
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 ttgtcatggg ggtgagctta gctattatag ggggtgtgta gctaagctct agcttttcat 360  
 ctcaaggagg tgagcctagc tattagaaac gtgtgtgtag cttactcct acttttttta 420  
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ac

482

<210> 10815  
<211> 510  
<212> DNA  
<213> Glycine max

<400> 10815

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ggccaagaat tttaaattaa aaagtctttt tcaacaaatt tactctctgg taatcgatta 180  
ccaaaggatg taatcgatta ccagtggcca aaactgattt acaacagcta ttaaaatttg 240  
aattcaaagt ttgcactatg taatcgatta cacatatata gtaatcgatt accagcagtt 300  
tctgaacgtt ttaattcaaa ttttaaagct tgtaatcgat tacacatata ctgtaatcga 360  
ttaccagaag agagtttcag aaaacattct caacagtcac atctttttgt gtgattcttg 420  
aatggctatc ataggcctat atatatgtga cttgagacac gaatttgata agagtttttc 480  
aaaacaaaaa ggtcttatcc tcttataaag 510

<210> 10816  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 10816

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caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatatgt 120  
gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggtctta tcctattaaa 180  
aagcaaatcg tgttatcttc ttacaaattc cttggccaaa ttacttgtga ttcaataagg 240  
aattatttga gtgctcaa atgttcagtc atctctttca agagagattt cttcttttct 300  
tcttcttcat tctgaaaagg gattaagaga ccgagggtct cctgttgtga aagaattcta 360  
aacacaaagg aagggttgct ccttgtgtgt taaaact 397

<210> 10817  
<211> 487  
<212> DNA

<213> Glycine max

<400> 10817

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caatgagttc agaactccag aggcaacatc aagacatgga cccatatgag atcgtcgaat 180  
atcttaagaa gatgtacggt ggtcaaagcg ggaaggctat atttcaatta tctaaggccc 240  
tgtttagatc ctcaattggt gcaaatgaaa aggttggacc ccatgttctt aagatgattg 300  
atctcataga acaacttgag aagttggggt ggactcttgg gaaagagctt tctcaagatt 360  
tgattctaca atcactttcc gatttatattt cacaatttat tgtgaatttt aacatgaata 420  
agatgaattg tgacttgcac gaaatgctta atctgcta attgattatga gaattaaatt 480  
gctttttg 487

<210> 10818

<211> 497

<212> DNA

<213> Glycine max

<400> 10818

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cctaaaaaga tccctccaac caaacacagg gataaacaga gaaggaaggt aaatgcgaga 180  
agaaaagaat gtagtaattg tgaaaacagc aaattaagta ccaatgaagt gatgtcaggc 240  
cttgtgtagg gagtaggaca actagaagcc aaatcagcaa atctcaacta tagattccta 300  
tccatgtacc ttagtaactt ttttaattta tagattcttt aaaaaaatt catgggttagt 360  
gggggttctac taaatgttgt catgacaaga gtatattcat tagacatcaa aatggaagtt 420  
atagtgcctt ttaactaaca aaattatttt tccctgatat ttctctttga tctttctaaa 480  
ttgtcaaadc taaatgt 497

<210> 10819

<211> 469

<212> DNA

<213> Glycine max

<400> 10819

tatgctgcaa acatctacaa cagacctcct taaccttagc agtaaaatca gccacaacag 60  
aacaactatg acctctcaag caacaggtgc aatcccagat agaggaatca tcccaacctt 120  
agatggtcga atccttcaca acagcagcaa caacaacagc cttatttttca aaatgttggt 180  
ggcccaagca gaccatgcgt tctccacca atctagcaac aacaacaaca acaacaacaa 240  
caacaataac aacagcccca gaaacagcaa acagttgagg cccctccgca accttcctt 300  
gaagaacttg tgaggcaaat gactatgcaa aacatgcagt ttcaacaaga gaccagagcc 360  
tccattcaga gcttaactaa tcagatggga cagtgggcta cacaattaa tcaacaacag 420  
tcccaaaatt ctgatagatt accttctcaa tctgtccaaa atcccaaaa 469

<210> 10820

<211> 497

<212> DNA

<213> Glycine max

<400> 10820

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agcttctaga cattgttctt cggaactgg tccagctcta cttgcattgc tttgacccaa 120  
tgttcatcaa acatagcatc atctatgtgt tttggctcaa tctttgatag tagcactgta 180  
tgcttgagag agttccttgt tttcactttg tcttaggat caccaatgat ttgaggcttt 240  
ggatgatgtt ttgttagcaa gggctctatt gggtctctga ctttttttagg ttgatcatcc 300  
actggtctgt tggacgcaag ctcatcttgg ctagacgcag aagaacactt gacgatattt 360  
tctattttca tctctggaaa agaattatcc agctctaaca ttgtagtgtc aaacttggtg 420  
tcattaaatc ttacatgaat agcctcttct acaataaagg ttctagagtt gtacactcta 480  
tatgccttgg acgattt 497

<210> 10821

<211> 511

<212> DNA

<213> Glycine max

<400> 10821

agctttccac attgaattca ttacctaatg tcatattaga tgggaattgg gtatcttaac 60

ataagaaatt tcagatggac tttaatccta atcccacagc cgaccttttc acgagatctc 120  
 tacttaaccc tttgggttaa tgatccaaat tatgctgagt tctcaciaaac tccactgata 180  
 tcacaccatg catgattaac tcccgaacca tgttgtgtct aacacccaag tgtctagact 240  
 tcccattata cacttgacta tatgccttag ccaaagtagt ctgactatcg cacctgatag 300  
 acatgggagg tataggtttg ggccacaatg gaatctcata gatcagattt cttagccact 360  
 cagcttcttt accagctgct gctaaagcta caaattcaga ttccattggt gaatttgtaa 420  
 tgcaggtctg tttcttggtat gcccaagaga tagcacctcc tccaaggagg aatacccaac 480  
 cacttggtgga tgaataatct tccatattgg t 511

<210> 10822  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<400> 10822  
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 atgtttgggt tcttgccatt gaacaattca tatggagttt tctttaaaat ggggtcttatt 180  
 aaagccctat ttaaaatgta gcatgcagtg ttaatggctt cagcccaaaa gtattttgga 240  
 agaggagtat catttaataa agttctagca atctcttcca aagatctatt tttcctttca 300  
 acaacaccat tttgttgagg ggttcttggg gcagaaaagt tatgctcaat cccatgctta 360  
 tcacaaaata attcaaattc tttattttca aactcacccc tatgatcact cctaatagat 420  
 ataatcttga gatttttctt attttggatg atttttgcaa gttttctaaa tgcttgaaat 480  
 gcatcattct tatgagtgat aaaaagagtc catgtgtatc tag 523

<210> 10823  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<400> 10823  
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 cccattctct ttggtatatg ggatggaagc tatgctccat tttgaggtgg agattcattc 120

tttgagaatt ctagcagagt caggattgga agaagtagaa tgggccccagg cacgttttga 180  
 ctagttaaata gttattgagg gaaattggct gccataagtc atgggcgact atatcagagt 240  
 agaatgaaaa gtgcattcga aaaaaacgtg cgcttgtgtg agttcaccga gggggatctt 300  
 attttgaaga aaatatcgca tgttcagaaa gatcattgag ggaaatgggc cctgaactat 360  
 gaaggacctt ttatggtaaa gaaggctttc tcgggtggag cattgttact tatgaatatg 420  
 gatgatgaag agctgccttt gcctgtgaat tctgatgttg ttaagtata ctatgcatga 480  
 tattggggac agtttgaaag ttcac 505

<210> 10824  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 10824

agctttgatg atgtctatat tgagtcacat gtttgtcatc atcaaaaagg gggagattgt 60  
 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaacaag gctcatttgc 120  
 ttcaagatta atacaagatt gttttaacaa acaaagcctt gattcaagct ttcttcaaga 180  
 tcaagccttg cctcacaagg aaagggttca agtcatccaa gggacatgta atcgattacc 240  
 aatggttcga aagtgtgtaa tcgattacac atcatatgta attgattacc agagactctg 300  
 aacgttggga attcaaattt taaatgaaga gttacaattg ttcaagaaaa acaactgtgt 360  
 aatcgattac accaattctg taatcgatta ccagagagga ttttcaagga atatcgccaa 420  
 cagtcacatc ttattatttg gatattgaat ggccatcaaa agcctatata tatgtgtgac 480  
 ttggggac 487

<210> 10825  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<400> 10825

agctttgagt tttatatttt atttggggga agattatcat tttctcactt acttttattt 60  
 gtaatctttg cttcaatttt caggccttca acagatgaac gaactgcaat atagaattct 120  
 tatcagaaga ggtacaaata gagctaatac aatggtaaga catcaatcag ataagttact 180



ccaccacaca cactaacata tttgtgagga gaaaaaaaaa tgttccctta cctgaaatgg 240  
cagggcatgag tgcaccaaca caaattatca tgcaagcacc cagtaaaaca aaaataagca 300  
aaaccgtttt tgtacctctt gtgtttctca atgaatcttt ttaaaggcga ggggtggatg 360  
cttctatttg aggaaccagg ttttgtgata tgtagaaagc ttctcatca caaacttgat 420  
gattaagaag caaacaaaat tttgcatttc tgcaaagggtg tgaatacaaa aca 473

<210> 10826  
<211> 491  
<212> DNA  
<213> Glycine max

<400> 10826

tcagagggtg cttgatgagc ttaacgacaa tactgtcatt gtgtttgtta acaccaagag 60  
gaatgcggat catgttgcca agagtttga taaggaaggg tatcgctga ctactttgca 120  
tggagggag tgcaggagc agaggagat tagtcttgaa gggtttagga ccaagagata 180  
taatgttctt gttgctactg atgttgctgg acgtgggatt gacatacctg atgtggctca 240  
tgtcatcaac tatgatatgc ctgggaatat tgaaatggac acgcaccgga ttgggcgtac 300  
tggtcctgca agaaagacgg gtgtggctac cacgttcttg actcttcagg actctgatgt 360  
cttctatgac ctcaagcaga tgcttattca aagtaacagt cctgttccac ctgaactggc 420  
aaggcatgaa gtttcaaaat tcaaaccagg aactatttca gacagaccac ctaaccaaat 480  
gacactgttt t 491

<210> 10827  
<211> 501  
<212> DNA  
<213> Glycine max

<400> 10827

agcttgaaag aagaatattt ttaattaatg taaataaatt aaaaattaag tggcgataat 60  
gaagggtgat taatgggtat ctagatttca taaagttaga aaagggttaa ttaaattata 120  
agagtttaaa gtggagaaca tttttgtaaa taactataca actagtttaa aaatagaatt 180  
ttagtttaat tagttgggtga ctaattaaag tgtttggtta tatgatgtag aataattaa 240  
ataagttaga gttgtaacac agtgaaaaat tacaactcag actgacagag aaattgtggt 300

gtgtcatttg tgtatgtatg aatttaattt caatacttgt atgtttttaa ttatagaatt 360  
 tgcgtgctat atatgtctat acttagtgta aataatttgt ttagtctacc ttgacaagga 420  
 tatggaaact acttaacaaa aatttcatct gtaacaaaaa tacgttgtag actgagtgc 480  
 agtgtaattt aactctgtgt g 501

<210> 10828  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10828

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 aacatctact ggatgagagt actattgaag tgaacagtcc cagaaatgct ttcctgcac 120  
 tgatcaggaa gataaatccg gatattttta ctcagatcat tattaatgga tcatatgatg 180  
 cccctttctt tgccacacgg tttagggagg cactcttcca ttattctgct atttatgaca 240  
 tgtttgacac tgtcataact agtgaaaatg aatggaggat gacgattgag agtgagcttt 300  
 tgggccggga ggttatgaat gttatagcat gtgaaggntc tganagggnt caaaaacctg 360  
 agacatacaa acaatggcag gtttgaata ccaaggctgg ttttaagcag gtccctctga 420  
 atgaagaatt aatg 434

<210> 10829  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <400> 10829

agcttgcaaa ccattccatt ctccacacat attactagct ccatcatatc cttgacctca 60  
 tataatttga atgttgagat tatgatgaga caatattgaa catatcccat gcttaagaat 120  
 ggatgatgta gtatcttgca tatgtatcat atccaaaaaa tgctccttaa catatccatt 180  
 cttatcaaca aatctaagaa ctagagttgt ttgttctctt ttagattcat catgggcttc 240  
 atcaacaatg aaacaaaatt ttgcattacc aatctcttct tgaatttcat cttgcacctt 300  
 tctagcaaag acatatagaa tatctttttg gatagtgcgt gaaatgtatc ttacattttg 360  
 agggacgttt tccgagataa tttcatctat ttccttatta taagaagcta agagctttat 420

catttcaaga aagttaccac ggtttccaga tcccacactt tcatcatgtc ccctaaaaat 480  
gcaagcttga aatgtcaacc att 503

<210> 10830  
<211> 511  
<212> DNA  
<213> Glycine max

<400> 10830

ttcctatctt aaagatttgt ttggtaaatt taacaaagga aaaagtgatc ttaatcacat 60  
gcttaatgtg caaaagcata ctacaaataa gaccgactta tgggtataaca agcaaaccac 120  
cttttcaaag aaaacaaagt ttgtatcctc aaaagagggtg aacccaaaca aggtctacaa 180  
gtgaggaaca cagtgaattc taggagaaat gcaaagacat gtcattattg catgaaaaga 240  
cttctttcaa agcaaaaaac attttttcta cttcaaaacc ctttaaacta cttcacattg 300  
atttatttgg tccttctaga actatgagtt tagatgaaaa ttactatggc ttagtaataa 360  
tggatgatta ctcaagggtc acatgacttt gtttttgaaa accaaaaatg aagcttttaa 420  
tgcttttcgc aaacttgcca aggtgattca aaatgaaaaa gtctgaacat tttttcactt 480  
agaagtgatc atggaagtga atttcaaaat g 511

<210> 10831  
<211> 508  
<212> DNA  
<213> Glycine max

<400> 10831

agcttggtgc tctttgcatt cagtgtttac aggataaggt ttgtgctcta cacttccttg 60  
ctagtgtggg tgcatttttg gaactgcata ttgcacatga cggtttttgg taaccacctt 120  
agttattgta ggttcattca attcgtgaag cagctgctaa caacttgaaa cgccttgctg 180  
aagaatttgg tcctgagtgg gctatgcagc acataattcc tcaggttcat ctatttactt 240  
aatttattat taacgaaatg atacaccaac atatgtcaac attaattcgt ctgtgtgggt 300  
ttttgtgcat gtcttgaaat atatgtttgc tatatgctat taccttttct attctcccaa 360  
gtgtaacttc agaagtatct atatggaatg tgtggaacag gttttggaga tgaacaacaa 420  
cccacactat ttgtatcgga tgactattct tcgggctatc tctttgcttg ctctgggat 480

gggccctgaa atcacttggt caaacttg

508

<210> 10832

<211> 492

<212> DNA

<213> Glycine max

<400> 10832

tgttcaagcc ataaatcgac ctctttatgt ttataccaag tccttattac cacgaatata 60

aaaaccttta ggttggtgca tgtatattgt ctactcaaa tcaccattca gaaaagttat 120

ctttacatcc atttagtgca actccaaatc gaaatgagct atgagggtca taatgattct 180

aaaggaatcc tttgtcgata taggggaaaa agtctcttta aagtcaacaa cctcattttg 240

cataaaatct tttgtcacta gtctaaccct aaatctttca atgttaccat ttgagtcttt 300

ctttgtctta aagaccatt tacaaccgat tgccttataa ttctcaggca acttaactag 360

ctcccatata ccattaactg acatagattg catctcttta ttcatgcat gccttcacat 420

tttttttact aaaggaaga aacaacttca tgataattct tttggatcaa taatgtctcc 480

aatgtcgat gc 492

<210> 10833

<211> 494

<212> DNA

<213> Glycine max

<400> 10833

agcttcatga tgatgaatct tgttgattca agtagttttg atgatgacaa aaagcccaaa 60

gaatgatttc aagattgagt caacaagttc aagatcaaga ttaatttcaa gtttcatgag 120

aagaaatcaa gaagattcaa gaatcaagag aagtttgatt tcaagattca agagaagaaa 180

tcaagaagac ttcacaaggg aagtattgaa aagatttttc aaaaaacaaa catagcacag 240

ttttgttttc aaaataattt ttctcaaaat tttccaagtt accagagttt ttactctcta 300

gtaatcgatt accaatggca aagtttgatt tcaaaagctt ttaactaaat ttgcaacggt 360

ccaattgttt tttaaatggg gtaatcgatt acaatatatt ggtaatcgat taccagtgtg 420

tctgaacggt gaaattcaaa ttcaattgtg aagagtcaca ttttttcata aaatgctttg 480

tgtaatcgat taca 494

<210> 10834  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<400> 10834

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 aggaattcat agaagacatc acataagcca tatgaatatg accacatcca caaagaaatt 120  
 gagctagtta taattacaaa gtatgaaatg agacaaggca ataatcatgt gattgattat 180  
 aaggcctaag atgtcagtcg gaactataca caacttcctg ctctcactac agagcatagg 240  
 gaccaaaca agacaaacta atggagagggc aacattaaag gttggccaga tagttaatac 300  
 ctcttattaa tctctgggtc ttaaatacata atgttgattg agccttctga ttcttaatac 360  
 taatattgag caagcctttt gtgcctttct cttctttttt ctttagcttt ggggggttgaa 420  
 gaaccacttt gatagtgggc gcaaagacaa ctttcacatt ctgttattaa ctgggggcaca 480  
 tgaaaacttg tgatataaac 500

<210> 10835  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 10835

tgtcccatgc ttcttggggc gtaggcgctt ttgatatttt gtcaactgta gtttcatcca 60  
 ccgattgcta tatgagaaac agagccttct cgtctctctt tcttgactcc ttccaccttt 120  
 cctttacacc ttggctgaac taggcttcat cttgcttcac aaaccattc tctacgatat 180  
 cccacacatc tagagctcct agtagcgctt tcatgttgat actccaatta tcatagatga 240  
 tctttgtgat catctgcatt cggaaaaggaa aacctccatt cgccatcttt cgaggatctt 300  
 gaacctttga taccactttg ttggaaataa ggctctttgt gttttcgaaa aggggtttatg 360  
 aatattggag ac 372

<210> 10836  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<400> 10836

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agcgactaac aaatatggaa ctgaatctca ttttgacatt ttaactcttc cctaaattcc 120  
aatatagatt tgtgatttat ccaaaactat ttgtgtaaac atatatatta tacttagaat 180  
tatattttta atagttctgt acacttatta gtttttatgc atataataaa tatttttgta 240  
gaaagtgtct aggtctatct tgaatttgta gggtgagttc tttgtgaaat aaaataaata 300  
ttaaagaat gcacttaatg tttggatcta ttttactcaa aatccatgtt gtaaagacac 360  
ttcttctatc aactgtaagt ctaagtaaaa aggtgttatc aatcaatggt ttggaactgt 420  
cattgaaaag ttgtccactt tctacgacgg tcaattcaat attccatgct aaccttgatg 480  
ttaaagtcc ttccaaacc atggttgaaa tccttttttt ttc 523

<210> 10837

<211> 511

<212> DNA

<213> Glycine max

<400> 10837

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gctcacctcc ttgagatgag aagctagaac ttagctacac acccctata atagctaagc 120  
tcaccccat gaaaaaatat atgaaaatac aaaaaaaat ccctactaca aagactactc 180  
aaaatgcctc gaaatacaag actaaaacc tatactacta gaatgaccaa aatacaaggc 240  
ccaaacgaag gaaaaaccta ttctaattatt tacaaagata agcgggctca tacttagccc 300  
atgggctcga aatctaccct aaggctcatg agaaccctag ggccttcctt tggatctttg 360  
gcacaatcta cctggagtct tctatccaat gcccttgagg gtaggattg catcacagct 420  
gtgggtcttg ccttaaagat ttggaggcac tatttatatg gtactcgggt tgaagttttc 480  
agcgatcaca agagcctcaa atacttggtc g 511

<210> 10838

<211> 506

<212> DNA

<213> Glycine max

<400> 10838

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 tgcttccaaa gtttcatggc cttgcagggtg aagaccgca caaacatttg aaggaatttc 120  
 atattgtctg ctccaccatg aaacccccag atttccaaga ggatcatata tttctgaagg 180  
 cttttcctca ttcttttagag ggagtggcaa aggactggct gtattacctt gctccaaggt 240  
 ccatcacgag ctgggatgac ttgaagagag tattcttaga aaaaattttc cctgcttcca 300  
 ggaccacaac catcaggaag gatatctcag gtattagaca actcagtgga gagagcctgt 360  
 atgaatactg ggagagattt aaaaaactat gtgccttgggt aaccaactg gccttgaacc 420  
 agaaatatgt acttggttga agggtaaatg gtttgtgctt ctctactgac caccatacag 480  
 acctttgccc ttccatgcag caacct 506

<210> 10839  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <400> 10839

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 atctgaagtt taatattcaa atgatcaaag ttgaaaaaat gcacacacat tacctctatt 120  
 tatagcctaa gtgtcacaca aaattggagg gaaatttgaa tttcaattca aatttcactt 180  
 gaatttgaaa ttgaatttgt ggagccaaac tttggagcca aaatttcact aattatgatt 240  
 agtgaatttt agttatggtt cagcctacta atccaagatc aattccaaga ttctccacta 300  
 agtgtgctta ggtgtcatga ggcatgaaaa gcatgaagga catgcccaaa gtgtgactat 360  
 atgatgtgac aatgggggtgt agtaagcaaa tgctcacctc cccctttaa atttaattgg 420  
 attgggcttc taccaattca attaaatttt atttcccaac acacacatca a 471

<210> 10840  
 <211> 503  
 <212> DNA  
 <213> Glycine max  
 <400> 10840

tggattggct cgactcattt tcacctctat tgatttttgg cacttacgat taggcatcc 60  
 atctaataaa gttcttgatc aagtatgtac caactttact tatgtcaaaa taaataaaag 120

tagtgtttgt gatacatgcc atttagcaaa acaaagcaag cttacttttt cttctagtgt 180  
 tactggtaca cgcaagcctt ttgaattagt tcacatggat atttggggaa cccttgctac 240  
 ccctcttttg catggacata aatattttct tactgtggta gatgatttta caaggcacac 300  
 ttggttggtc ctcatgaaat taaaatctga aactagaaac ctcatgaaa actttattca 360  
 ttttggttgg aatcaattta atgctatttg ttaagactat tatttcaaaa catggggcct 420  
 aattttggct attcccgaac tctattaaaa aaatatggga tttttacata ataatttaat 480  
 gtgtttcaca accacaaaca aaa 503

<210> 10841  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<400> 10841  
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 gctgctcttt attctttaat ttagagcaca actogttcaa atctttaatg ctttattact 120  
 gcagtatatt ttatatctta acattatgaa atgctttgat aaaatgttag caactgttaa 180  
 gtgaaaatgt tcctcttttt gtaatacaga attcatggcc tcaaactctgg aaagatgttg 240  
 aaagagttcc gtggccatac atcttatgtg aatgatgcaa tttttacaaa tgatgggagt 300  
 cgtgttatta ctgcctcaag tgactgtaca atcaaggctt gttacttggc attgtacttg 360  
 aagttccttg ttcatttggg gttcatatga gatgtctttt tcctccgtat tgtaagtctg 420  
 ggatgtaaag actacagact gcataccaac ttttaagccc cctcctcctt taaagggtgtg 480  
 tcttccaaaa atttactatt atggggtttt g 511

<210> 10842  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<400> 10842  
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 taacaagacc tgggatttgg tttctcttcc acccaataga aaagcagtgg gtttcaaatg 120  
 ggtgttcaga gtcaaagaaa gtgcagatgg gactgtcaat aaatacaaaag ctagactagt 180



agcaaaaagga tttcatcaag tggctggttc taatttcaat gaaacttttt ccctgttat 240  
 catacctgtt acggtaaggt tgattctcac cttggctcta accaataagt gggaactcct 300  
 tcaacttgat gttaacaatg cttctttaa tggttttcta gaggaacca tctatatgca 360  
 gcaacccccct ggatttgaaa accccaatac ttctcttggt tgtaaattga ataaggctct 420  
 atatgggctt aagcaagcac caagacagtg gtttgataga ctaaaatcta cactcttgca 480  
 tcttggtttt tttgcaagca agtgatc 507

<210> 10843  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<400> 10843

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 gagtcttagg aatggtatat taaataggaa gggaattcct aattgaagta gcaaaagggt 120  
 tggccaagaa atttaagtta aaaagtcttt ttcaagagat ttactctctg gtaatcgatt 180  
 accagaggat gtaattgatt accagtggcc aaaaatgatt tacaacagct attaaaattt 240  
 gaattcaaaa tttgcaactgt gtaatcgatt acacatatat ggtaatcgat taccagcagt 300  
 tattgaacgt ttttaattcaa attttaaagc ttgtaatcga ttacacacat actataatcg 360  
 attaccagag gagattttca gaaaatattg tcaacagtca catcttttca tttggttctt 420  
 gaatggccat caaaggccta tatatatgtg aattgagaca cgaatttgct aagagtttta 480  
 taacaaaaa 489

<210> 10844  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<400> 10844

taacaaatac ccaatcacct tctcagaatc taacatcatg tctattgtta ttaggaaaat 60  
 gtttcatagt atgatgagct ttgataagtt tcttcctaaa atcagcgaat acagcttcgc 120  
 ggtcagcaag aaagtcatcc tcggcatcaa ggttgatgt tcccgtcaca taatgcggaa 180  
 tattgggagg tttcttccca aaggatgatc tgtaaggatg cagcccatg cctgaatgaa 240

tggatgtatt atacgaccat tctgcccata gtaagaattt tccccaggtt gaaggtcgag 300  
 gatgaacaaa agctcccaaa tactgttcta ttatgogatt taacacctca gtctatccat 360  
 ggatcttgcc aacaatgtgc atgaagagct gcgccaccat tgaagctatg taatggggtt 420  
 ggaggggtacc aaagtgaatt ccctttgaaa aaccgtctat gacgaccaag atcacagtgt 480  
 gtcccccgaa aactggcaat 500

<210> 10845  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 10845

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 caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
 gacagctttc cagggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180  
 atattcatag ttgcttccat caagaattgg tgggtctgtc actggtcgcg cttctttctc 240  
 catgttcate agaatttatc accctagatc tcaactctgtg atttcgagtg ttggctctga 300  
 taccaaatga aattctgata ccagggggaca gatgtcgtac cggatgtcac gacatcacgc 360  
 ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtaa ataacataag 420  
 agaattgttt acccagttcg gtgcaacctc acctacatct gggggctacc aagccaggga 480  
 ggaaatccac tctcaatagt gtt 503

<210> 10846  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<400> 10846

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 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
 tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat gggtttcttta 240  
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300

atttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360  
 ctctagaaac attacaagaa catttttatt ggctcatat gaaaaaggat gtgcagaaat 420  
 tttgtgaaca ttgcattgta tgtaaaaagg caaagtctaa ggtaaaacct catggattgt 480  
 atactccatt gcccaatt 497

<210> 10847  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 10847

tataatatat cgatacgcta gaaattaaat gtcggaaact ctcgggaaat tcaaattggc 60  
 ataacgtttc acacggatgt ccgattcggg cacataatat gtcgagaggc tcgaaattga 120  
 acaacggaag ctcttgagaa atttaaatgg tcataactta taactcggat gtctaattca 180  
 ggcgcatcac atatagaggc actcaaaatt gaacaacgga agctctcgag aaattcaaatt 240  
 gggtataact attcacactg aggttcgatt catgattata atatatcaag aactcgtgaa 300  
 ctaaaccatcg gaagctctcg ataaattcaa ttggtcataa cttttcacac gaatgtccga 360  
 ttcgggcgca taatatgtcc acacgctcgg attttgaaca acggaaagct tcgggaaatt 420  
 taaatggtea taccttttca cacctgaagt ccgattca 458

<210> 10848  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 10848

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 ataacttttc tcacggatgt ccgattcggg cgcataagat gtcgagaggc tcgaatttga 120  
 acaacggaag ctcttgagaa attcaaattgg tcataacatt tcacacggat gtccgattca 180  
 agcttataat atatcgatac gtcgaaatt aaacgtcgga aactctcggg aaattcaaatt 240  
 gggtcataacg tttcacacgg atgtccgatt cgggcacata atatgtcgag aggtcgtgaa 300  
 ttgaacaacg gaagctcttg agaaatttaa atggtcataa cttatcactc ggatgtctaa 360  
 ttcaggcgca tcacatatag aggcgctcga aatgaacaa cggaagctct cgagaaattc 420

aaat

424

<210> 10849  
<211> 502  
<212> DNA  
<213> Glycine max

<400> 10849

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tcctaagtta tcttttccat tattcaatac aaaacattta caaccaaaga tatgaagatg 120  
tgagatgttt gggtttctgc cattgaacaa ttcatatgga gttttcttta aaatgggtct 180  
tattaaagcc ctatttaaaa tgtagcacgc agtggttaacg gcttcagccc aaaagtattt 240  
tggaagagga gtatcattta ataaagttct agcaatctct tccaaagatc tatttttctt 300  
ttccacaaca ccattttgtt gaggggttct tgggtgcagaa aagttatgct caatcccatg 360  
cttatcacia aataattcaa attctttatt ttcaaactca ccccatgat cactcctaata 420  
agatataatc tttagatttt tcttattttg aatgattttt gcaagttttc taaatgcttg 480  
aaatgcatca ttcttatgag tg 502

<210> 10850  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 10850

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ttgttcaatt tcgagcattc ttccctttta taagcctgaa tcggacattc gtgtgaaaag 120  
ttatgaccat ttgaatttct caagagcttc cgttggtcaa tttcgagcct ctcgacatct 180  
tatacgcccg aatcgaacat ccgtgtgaaa agttatgacc atttgaattt ctcgagagct 240  
tccgatgttt aatttcgagc gtatcgatat attataagct tgaatcggac atccgtgtga 300  
aaagttacga gatattgaat ttctcaagag cttccattgt tcaatttcga gcctctcgac 360  
atcttatacg cccgaatcga acatcccggg gaaaagttat gacc 404

<210> 10851  
<211> 493

<212> DNA  
 <213> Glycine max  
 <400> 10851

agcttcatgc ttaagtatgt atggcaaaac ttcattatta ttgttcaaga catacaagtg 60  
 agcttgtaac aaatctttta gacttggagt gatcacatgc agtcctcttg aacccttacc 120  
 acccactctg tcatcatgcc gagactcagg aaggccaata ggttttagcct tctcaatgta 180  
 ttctgaacaa aattcaatga cttcttttgc aatgtacctc tcaacaatag atgcttctag 240  
 atgataagga ttctttgtat acccttttaa gatcttcatg tattgctcaa ccgggtacat 300  
 ccaccacaaa taaacaggac cacaacattt gattttctctg accagatcca taatcaagtg 360  
 aatcatgatg tcaaagaaag caggggaaaa atacatctcc aactggcata gtataatttc 420  
 ggcctcattt tccagctcat catacttgac aggatcaacg actttgctat atatggcatg 480  
 gaaaaaaaaag cac 493

<210> 10852  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <400> 10852

tcacgatata ctacgggaca caatcggaca ttcgagtaaa aagttattgt cattttaatt 60  
 ttcttagagc ttccggtttta attacgagcg gctcgatata ttacgggact gaatcagaca 120  
 tccgaggaaa acgtttttgt cattagaatt tgctcagagc ttttgttttc aatatcaagc 180  
 gtctcgttat attacgggac ttaattgtac atctgagtta aaatttaatg gggtttgaat 240  
 ttgctacgac cttctctttc caattacgag cgctcgata tactacggga cacaatcgga 300  
 catccgagat ataagttatt tttttttgca tttgctcaga gcttatgttt tcaatttcga 360  
 gcatctcgat atattacggg acttatatag acatcccaga aataaattat tgtcctttgg 420  
 aatttgc 427

<210> 10853  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10853

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ctttgctgat ggcttcttcc cgttccaagc ttcaattgga gtcttgtctt ttacagactt 120

agttggacat ctggttgagta tgtaaacagc aatgtagact acttcagccc aaaatgtgtt 180

aggtagtccc ttctccttga gcatcgatct agccatttcc ataactgtgc gattttttct 240

ctcagacact ccattttggt gaggagaata tgcgactgta agttttcgct caatgccttc 300

atcctcacia aatctttcaa acttgcgaga ggtgtactct tttccgtgat cacttcttag 360

tacttttata cattttccac tntgattttt cagca 395

<210> 10854  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 10854

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aaaactccgg gtcctggtgc tcaaacagct ctctcggtccc ttgctcggtc aagaatgaaa 120

attggtcgta taggtatttg ccttcacttt atttgcccatt tgtcatgttt ttatgtgttg 180

gctgcatatt ttccaggggtg taacatattg tggtgaagca tttattttct tggttaatct 240

gaagagtcag tgtttatctc tccctttcga ttgcagcttt gttttcttat tgatttcatt 300

tgaatggcat gtactgtgaa gtacttatta atgggttcttg att 343

<210> 10855  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 10855

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ctctgagcca aatcaagccg acaatatctt tttactccga tgtctgattg aggcccgctca 120

tatatcgaga cgctcgaaat tgaatgttga acctctgagc caattccaac gacaataact 180

tttttctcgg atgtctgaat gagtcccgctc atatctcgag acgctcgaaa ttgaatgttg 240

aagctctgag ccaattcaaa cgacaataac tctttactcg gatgtctgat tgagtctgt 300

catatatcga ga

312

<210> 10856  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 10856

agcttatctc cagcatagtc aacatcacag tagcttgtga gtccaaaatc tttccttctt 60  
ttaaagcata gaccaagggtt ataagttcca ataagatata taaaaatgca ttttaataaca 120  
gataaaaagga ctttccttgg ttctttttga aaccttgcac ataagtaaac actaaacatt 180  
atatcaggcc tatacgctat aagggtataac aatgatccaa tcattgctat ttattggggtt 240  
ttgtccaact tttttagatt cttcgtccaa ccctaagtat ctagttggat gtataggtgt 300  
ctccatttct tttgcattgt ccacgttgaa catatttagt aagtctttca tatacttg 358

<210> 10857  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 10857

ggatcttctt catcaacgga gtcctttgct tcttgaagtt caatggaagc ggaatggaga 60  
aggaagaaag atgattggag atgccacttc aaggagaaga tgagtcaaga acaagctcac 120  
caccataaga agccatggat aaaaacttga aggtaggaga agatgagtgg agggagaagg 180  
agagaaggag cacgaaattt agttcctcaa atgaggtatg aactttgaag tgtaattctc 240  
aatgatcaa agttcaaaaa atacacacat atggccttta tttatagcct aagtgtcaca 300  
caaaattgta gggaaatttg aatttctatt caaatttcac ttgaatttga aattgaattt 360  
gtggagccaa aatttcacta attatgatta 390

<210> 10858  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10858

agctntctat tctaatatag aaatccatga atgtacctta atgtctgaag tttatgggat 60

taagatgggtc attgaccaat ccctatttta tgatttaaca aaattgccta gtgaagggtgt 120  
accttttgag ggtgcattga ttgatgaatg gaaattctat ttctctgtgc atgatgcctg 180  
ccggttggtt tgcaccaatc aagcggatat gaccggaaga cttcttgtca gttcattggc 240  
ttttgagagc cgcacacctc attaccttat tgttcgcac ttactcccta gatcttcaaa 300  
ccttgctcag gtttctgaag aagatctcat tgtcatgtgg gcctttcata aaggtttaca 360  
aattgattgg gcacaccttg ntagatatcg catgcataag gcatngcgaa tgaatgcccc 420  
nttgcttat cctcatctta ttactcttt 449

<210> 10859  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10859

tgaggataga gacttcccaa gctatntatc ttctctctca tattgctctt tctcactcta 60  
agaagtggat tcaactctttt gtcttggatg ataggaatga aggctcctac ccttatttat 120  
actactccac ctctacaatg aatgggtggag attacttgta tcttatggty gagattaatt 180  
ctctagaatg cttcacacat tctatgagtc tctacactct gctactccct tccatactct 240  
ntcataaggt tctagaaggt tccacacatc tccagaatat tccagagggt tctacattct 300  
tccacaagct tctagagagt tctacactac tctagagttc tctaggacgt tctagaaaat 360  
tctacacttt tctagaaagc tctagaattt tct 393

<210> 10860  
<211> 446  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 10860

tgctcaccac tatcagagga gaaacctttt tgttgtttca tataaacctc ctctctataa 60  
tcaccattaa gaaaagttgt tttaacatca atttggtgca actcaagggtc aaaatgagca 120  
actaatgcca agattatacg aagagaatct ttcttagata ctggagaaaa agtctctttg 180  
taatctattc cttccttttg agtaaactct ttagcaacaa gtcttgctt gtatctctcg 240



atgttgcccta atgaatccct ttggtcttta aaggcccatt tatatccaat gacctttgcc 300  
ccattatgca actctacaag gttccaaact ttgttactct gcatagaatt catctcatcc 360  
ttcatggcag tcataccata aattgactct ttacaactca tggctttgat caaaagttca 420  
ggatcattnt cagctncaat attata 446

<210> 10861  
<211> 343  
<212> DNA  
<213> Glycine max

<400> 10861

tgggcaaadc cgaggactgg tgtacggagg cagcatcttc tctcaattgt agtcaaattgg 60  
atattccatt gtcttacctt ggaattcctg taggggtcaa ctctaaaaat aggtctgtgt 120  
ggcaccatcat tattaccaaa tgcgaggctc aacttacgaa atggaagcaa agaaatctat 180  
caatggggggg tagaataacc ctcatattat cagtcttaac agccttacct atatatttgc 240  
tatccttctt caagagtcct aagctagcgg tgcagaagat tacatctata caaaggatat 300  
tttgatggggg caacctccaa gactccatta agaatccttg ggt 343

<210> 10862  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 10862

agcttatctt gattgaatgt agcattttac ttgtctatat ttctaaatta tcattttctgc 60  
aaacgactca tttagctctg acattatagt gtttgtctta ttgccattaa atcttacagg 120  
aatgtccttt tccataatca aggtttttaga gttatacact ctatatgcct tggataattg 180  
agagtattca agtaagaatc cataatcaca ttgggagtca aactctttta agttatcctt 240  
gggtgttcaaa atgaaacgtt gacatccaaa tgggtggaaa taaaaaatat tacgcttacc 300  
ttcctttcac aattaatagg gagtcttctg taagattgac ctaatataga ctcttgatg 360  
taaaaaacaa acagtgtgat cgacgccgta ctggaatcaa ataaacatga taatgcagta 420  
actatgaagt gacctt 436

<210> 10863  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10863  
  
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 aatgcactct ttatgtccat ttgatatagc cgtcatttag gatgagcgaa aaaatcataa 120  
 taaaatgcgt attgcctgta gcaagcaaca tgagcataag tttcactata gatgatgcct 180  
 tacaactgtg agtaaccttt tgcaactaac cttgccttgc ttcgtacaac cttacatgcc 240  
 tcggtcaact tgtttcgaat acccatgtag aacctccta 279

<210> 10864  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10864  
  
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 tcttaagaag ggggggggttg aattaagata ttcgaaactt ttctcctaata taaaaatcta 120  
 tcttactttt tacttaaggt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180  
 aatgaagcaa cttgaattat gaataataag caataataaa taaaggagat taagggaaga 240  
 gaaaatgcaa actcagtttt atactgggtc ggccacaccc ttgtgcctac gtccagtccc 300  
 caagcaaccc gcttgagagt tccactaact tggtaattcc ttttacaagt tctaaacaca 360  
 caaggacaac ccttcctttg tgtagagat tcttacaaca agagactcac agtctcttaa 420  
 tcccttagag aatgagaaga agaaggagaa canatctctc tagaaagaga t 471

<210> 10865  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10865  
  
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 atatacgaga ctacactctc taatctccct tactatgctg accatggagt agcggatgac 120

tttcttcaga tcgcctatgt tagtggatag atattgactc acaagaaatt acataatctt 180  
tcttagatgt aacgcaaata cacctggacc gctttcttcc ttttccgaca cacctacaca 240  
cttttctaaa ttatgaaaac atacacaaac tttcttagat atgatgcagc tatgtgagag 300  
aagtcatacg caacaactat tgagtatttt tcatcaaaaa caacgcgggtt ttgctccttt 360  
gactataaaa catgttttatt aaaaaaatat ttctgcacaa aatgcaaaca agttctcaca 420

<210> 10866  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 10866

agcttcgtca tcatcatcaa tttcatcac ttcagtatta ttattgtcac catcaccata 60  
gacggagcta caaaaattgt gactactgtc catctctaac attatatcgt ccaacttcta 120  
cacaccaaca cattagaaaa taaataaaaa atacataacc taattgttgc ctttgaaaca 180  
ccgtaatttc tctatcatta agtgccctga atggtacaca acaatgacac tagtatcttc 240  
cattaacaga agaagaatgg cagaattaaa ataagttatt attataaata gctttttttg 300  
ttaaaaaat aattttttaa atactctata ttgttcatta taaattaaaa tttattacaa 360  
aatatataat cttatagatt caacatttta tgcatacatt acataatttg ttaataacac 420  
tttattatca ataaa 435

<210> 10867  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10867

agagcatact gcatttgaca acgaacaaac ccattgtctt ggaagtactt gtcaatgcga 60  
gtattccatg ccctcgggtgc ttgctttaga ccatacaacg ccttgttcaa tttcaagact 120  
tttccttctt gaccttcgat gacaaaaccc attggttggt caacatagac atcttcttta 180  
agatagccat ttagaaatgc cgattntaca tcaagctgaa aaattctcca cttcatttga 240  
gctgccaagg aaataagaag acgaatggtc tccatgcggg caaccggtgc aaacacttca 300  
tcataatcaa ctccatantt gtgctttag cccttagcta caagtcttgc tgttgtctc 360

tcaacctctc attttgcatt c

381

<210> 10868  
<211> 317  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10868

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tatatcgaga cgcacgaaat tgaacaacgg aagctctcca gaaatttgaa tggtcataac 120  
atttcactcg gatgttcgat ccggggacat aatttatoga gacgctcgaa attgaacaac 180  
cgaagctctc gacaaattag aatggtcgta acttttcacg cgaatgttcg attcggggac 240  
ataactcatc tagacgctcg aatatgaaca acgcgagctc tcgagagata tgaatgggtca 300  
taaagtttca cacggat 317

<210> 10869  
<211> 468  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10869

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gcctatgcaa gttgaaagcc ttggaggaaa gaggtatgcc tatgttggtg tggatgattt 120  
ctccagattt acctgggtca actttatcag agaaaaatca gacacctttg aagtattcaa 180  
ggagttgagt ctaagacttc aaagagaaaa agactgtgtc atcaagagaa tcaggagtga 240  
ccatggcaga gagtttgaaa acagcagggt tactgaattc tgcacatctg aaggcatcac 300  
tcatgagttc tctgcagcca ttacaccaca acagaatggc atagttgaga ggaaaaacag 360  
gactttgcaa gaggatgcta nggtcatgct tcatgccaaa gaacttcctt ataattctctg 420  
tgctgaagcc atgaacacag catgctacat tcacaacaga gtcacact 468

<210> 10870  
<211> 355  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
<400>        10870

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aatataataa ttatgagctt tcaagccaca gatataatcc aggttggaag aatcatccaa    120  
atctgagatg ggcaagtctt ccacaacaac aacagcctgt ccttcctttc cagaatgctg    180  
ctgggtcaag caggccatat gttcctcctc caatgcagca gcaacaacaa caacaaagac    240  
aacaagcagc tgaggccctt tctcaacctt ctttatagga gttagtgagg caaatgatca    300  
tccagaatat gcaattttag taagagacaa gagcctccat tcagactctg acaaa        355

<210>        10871  
<211>        262  
<212>        DNA  
<213>        Glycine max

<400>        10871  
attgatgaat tggagacact acctctgtag agctagattt gagggtttta gtgatcataa    60  
aagtttgaaa tacctatttg accacaaaga actgaacatg aggcagaaaa ggtggatgga    120  
gttcttgaag gattatgact tagaagtggg atatcacctt agcaaagcca atgtagtggc    180  
agatgcttta agctgaaagt cattactcac atctgctatg atgattcaag aatgaaagtt    240  
gactaaagag ttcagagatc tg                                                        262

<210>        10872  
<211>        332  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        10872

aaagattttg gctggttatg ccataaacac attcctgatc agaaaagaaa gaagctggat    60  
gataagagtg agtcaatggg tttcataaga tatagctcta gtggtgcata caagctgtat    120  
aatcctacca ccaagaaagt agaattcagc agagatgtat tgtttgaaga atataatgct    180  
tggaatccg ataattgttg ttcacgttaa gatcaaacag tggctgagat agatttagat    240  
ctagatcaga ctgcacctga tntagataat ggagaagaac ttggagagga actcaattta    300  
ccacttgcac cacctgtgga atctaattgca cc                                        332

<210> 10873  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10873

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 cggaagtttc ttttgggtgag gtagccatgg aaaagcagag cgtttggaat gatttcgtaa 120  
 atctcagaag gctattggga aatgctggta taaacacgaa tgccaagcag atataaattt 180  
 gaatgaggaa tgtagagggt cgtgtgaagc aacggtcgaa ttttccttgg ttcagtagtg 240  
 aacgtgctat taatgttaag tgattcgttt gggcacgttc agattgctgt agntgctata 300  
 attcctctag cacacaaatg cccagcttgc cctcagttt ttcaaactga tttgcatcca 360  
 aagcctttgt gaaaatatct gctatttggt cctcagtgtc aacatgcttc agtgtgatca 420  
 ctttat 426

<210> 10874  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10874

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 atagacctct tatctttaat ggagtgggtt accactactg gaaaacctgc atgcaaactc 120  
 ttatagaggc aatagaatta aatatttggg aagccataaa acaaggacct tatgttcctt 180  
 ctataatagc cggaagtgca acaatagaaa aacctatagc agactggact gaggaagaaa 240  
 gaagattagt acaatataat ttaaaggcca aaaatattat tacatctgcc cttggaatag 300  
 atgaatactn tatggtttca aattgtaaaa gtgctaagga tatgtgggat aactacaag 360  
 taacacatga aggcacaaca gatgttaaaa gatctangat aaacacttta actcgtgaat 420  
 atg 423

<210> 10875  
 <211> 448

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10875

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 atcaaggggc tttccttctg tgtccagcat cttgggatgt tcccagcctt tgatgacagc 120  
 ttttcaggtt ctgctatcca gtgatttgag gaaggccacc atccttgctt tccagtattc 180  
 atagttgggt ccattcagaa taggtgggtc gttcactggc cctccttctt tctccatggt 240  
 catcagaatt tatctcccta gatctcactc agtgatttcg agtgccctgct ctgataccaa 300  
 ttgaaattct gatactgggg acagatgtcg tacaggatgt cagcacatca cgcttcagaa 360  
 catgcagtat atatntgaca gtgtgtacag tgtanacaag aagataacac aagagaattg 420  
 taaccaggtt cgtgcaacct acctacat 448

<210> 10876  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10876

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 agtccccctt attaagaact agctccttct ttcctctatt gccttttagtt gcatacacct 120  
 ttgtttgggt ctttatttgg ttcccaaccc tctcatgaaa cttctttaca aactctgacc 180  
 taaattctcc ttctttatgt ataaaagaag tgtcaagtag gagggtaatt aggtctaattg 240  
 gtgttagagg attgaacca taaacaacct caaaagggga ttgcttggtg gttctatgga 300  
 cccccctatt gtaggcaaat tctacatgag gaagatactc attccatgac ttatgggtgc 360  
 ttttcagaag agcccttatn aggggtgtata gagactattc actaccttta tttgcccac 420  
 agtttgtgga tggaaa 436

<210> 10877  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <400> 10877

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aattgagttt tatttgtttg cataacttgt aggcaacaat aacgcaacca gttgttaata 120  
acatgatgaa tgtcttgtag tttcagatta ccgctggagc aataccattg taccttggtg 180  
cctttacagg aaactgggct tatggatctt ccacagaact gtatttgctg aatagagtga 240  
atggtcctag ttggg 255

<210> 10878  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 10878

tctgcgagca ttgttctcca gattccatat tctcatgacc tcattcttca gtcccagttg 60  
ggcataaaga gagatgatat gagtgtcacc ctggccatct ttgttgcca gcctttcttc 120  
agatttcctt agggcacaaa ccgcattcct tgtaagtcct gcttatatgt aaaaaatggc 180  
cgcaatagaa taagtattcc agtccatgac aatgtgtggc tgagtctaca tctctttcaa 240  
tactttttcc actccaccaa aatcagacct cacaccataa gaatttatac agatcctgta 300  
gctgaagttg tctggcaaga cttggttctg tttcatctca cgaaacacat accgaacctt 360  
ctgatgctgt ccaatatttg tatatagaca cat 393

<210> 10879  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10879

tattgtgagg aaatatggta gtgccataga cactattatt accatgaact gcatcaatcc 60  
catagatgag aggtattccc agtcgcgact gaagagctga tttttgaaag ccatccacca 120  
tatcagccca atcagacgac agtgcatttt caaatgggtgc actgccacca gaactgagta 180  
tgctccctat agagtgcaca aataatcaaa cgccaccctt caaattcatt tcaaattcca 240  
acaggttcaa agcttgaaca aaatgtagac acaaatggac catgtaatac atcgatacaa 300  
aaacatcacc aatgttccca ttntcaagac acactctcaa taggggtccc tcaaattcat 360



<210> 10880  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10880

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 tttcttttgc atcatcatca aatttaattt gtacgtgttg atgattcact tttttttctt 120  
 atattacttt ntacctcagg cacttgcttt taattttaaa agataacaaa tattatataa 180  
 tattatatct acataatcta cacctatatt ataattntta tttttcacct atattataat 240  
 tgttattttt caacttattt gcgcgaatgc actcaactta aactagttat aactaaaaa 300  
 aaactaacta aaaatcatta ttattatant tttaaataat cttacacgat ggtcgaaaat 360  
 atcacttagg ataaattgga gtaactntat ggatcccata attggtaagg tagtaacaat 420  
 aataatacac cagagcatga gaatgagaag acagtcacat ctaaattaac cttc 474

<210> 10881  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
  
 <400> 10881

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 tctaattccgg agaaccacgc atagtgtatt gggcaacaat cccatgttct tgaagaaatt 120  
 tcgcaaataga acctgggtgct tgtccatctt ctgtgtatct accatagtac tccccacctc 180  
 tatctgatct cgcgagctta atttgttttc cacattgttt ctcaacttca gccttcaaaa 240  
 ctgtaaaggc atctaaagct tcattcttag aatgaagata gtggagatac atatatcgtg 300  
 aataatcatc tataaagggtt atgaagtatc ttcaactat 339

<210> 10882  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

<400> 10882

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taattgctat tggttttctct caatcaaaga atgactattc tctntntacc attgacaaag 120  
gtgcttcctt ggttggtctg ttggtctatg tagatgacat tttgcttgct ggcccaagtg 180  
ctacatgtgt tcattctatt caggccaagc ttcaagcttt gttcatacta aagatccttg 240  
gttccttaca atattttctg ggcctagaag ttgcanagtc tagaaagggc gttgtcttga 300  
ctcagtgaan atatgccctt tctctgtagg aggatactgg ttttctttgc tgcaaaccat 360  
cctcccttcc aatggatcca aatctatagc tcaacatgct tagtggtgat ttactgcccg 420  
atccctcaat gtacaagcat ttacttggtc gcctcatgta cctaactatt tcaaggccgg 480  
atattacat 489

<210> 10883

<211> 214

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10883

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gcatggtagg tcngctctaa ctgcaatggt atatcgaaag gtgctaagga tatcaaactt 120  
ggccatacta agtcacacga acagggatgt tagaaactac atggcacttg atcgctcttag 180  
ggccagagac tactatcggt atgttcatga catg 214

<210> 10884

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10884

agcttgcaga ccanggatnt atctgcaact tcaaaactat gaggtgagt cataaataca 60  
tatccctcaa gcaaccatt aagaaaagca ttgttgacat caaactgaaa taactcccac 120  
ccttgagaaa gagcaagagt gagaataaca canattgtga caggctcgac cacaggaaaa 180  
aatgtctcat gaaaatcaaa tccatgaacc taatgaaaca aacccttat caaccagtgt 240

ggctttgaac ttgttgatag aaccatcaac attttctttt actctgaaaa gccatttgca 300  
 cccaatagct tgcctattag gaggtagggg aaccaagtcc cgagttctgt tttacagtaa 360  
 agcatcatatc tcctcttgca tagctgtaga ccaatctgaa ttttccaggg cctctttgac 420  
 agtcttgggt tcaaatg 437

<210> 10885  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10885

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 gagttaccct gagctctctg atgccttgng caaaatgttt agctccttca ccattggtaa 120  
 ctataattaa tccataatth accatacatt aactnttttt tatatagaat ttaatgactg 180  
 atcataactt ttacgtatca gtatctagtt tgttttctct ttaatataac taccaaaaga 240  
 tatggatctt aaatntgatt ttgtagaaag ttaactaatg gtgtatgtga atataaaatt 300  
 gaatcgtgca gctgattcga tggattaat tattggtgtg ttcttgatat atttaaggaa 360  
 attgtgaatc ccaaggcttc aatggattca tgaatgagag caagttgatg gat 413

<210> 10886  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10886

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 attgntaca aatgttgttt gcttttagcag ttttccatt atgattacat tatattttgg 120  
 ctcttcttgt cctaaagtt gaaatatcac gacactggaa gagagaaaga atacttgcca 180  
 caagttggtc agtgaatat gatgaacaag gtcagctaag aatgaacaaa taatatatta 240  
 gatgtaatta tcttaatgaa agaaaataaa agggaaaatt acttgtttcc aacttactgt 300  
 aattcctgta attntaatgc agaaagtat aatggaagt actgtaagat attgngcgtg 360  
 tatcaacttc tctogaagtg tacaggagag tacagctcgt ggattt 406

<210> 10887  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10887

ngaaggcaaa ctggatgcat tggttaactc gcgtacccag ctggccttga atcagaaatt 60  
 tgtacctgtt gcaaggggta gtggtttgtg ctctctgtgt gaccaccata cagaccattg 120  
 cctttccatg cagcaacctg gagcaatcga gcagcctgaa gcttatgctg tgttagtgct 180  
 tagctatact gagtttttaa agattggcta aaattttgtt ataacataag cacttataca 240  
 atgaaggaaa gctggagttg ctgcacatga tgtccaacgt tattgtaagg aatcatattg 300  
 tgctccacaa tgcacaatgc aagatataat gtctaataa gaataagct gcaggatcac 360  
 catgttgata caatgccaga cattctgccg aaatactgac cataaattgt gtatcttaca 420  
 gataat 426

<210> 10888  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10888

tgtaatcgat tacacacata ttataatcga ttaccagaga agttnttcag aaaacattct 60  
 caacagtcac atctttntct ctgattctta agtggccatc aaaggcttat atatatgtga 120  
 ctagagacac gaatttaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180  
 caaaattgtg ttatctctct acaaattcct tggccaaaac actcgtgatt caataaggga 240  
 attattgagt gctcaaatng ttcaatctat ctctntcaaa agagatttct tcttctcttc 300  
 ttctttattc tgaaaaggga ttaagagacc gacggtctct tgttggtgaaa ggattctaaa 360  
 cac 363

<210> 10889  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        10889

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actatggcat catttctggc gctaaactgt tgggagttgg aggccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca atggctccac cactggcaac atctatcata 180
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctctgaaatc 240
tgatgatggn ggcaactggc acatagtttc ttaaactctt ccagtactca tacaagctct 300
ctccactgag ttgtctaata cctgagatat ccttcctgat ggctgtgggc ttggaagcaa 360
ggaaaaatth ctctaagaat actctcttaa tgtcatccca cctcgtgatg gaccttgag 420
caaggaata c 431
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<210>        10890  
<211>        395  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        10890

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ggctaattga agatcttcta cttgatattc acccttcgct agtagcatta ccaccttga 60
gtcgcccttt gccaccagat ctttaactct tgtttcccta gtgagccaca tgctggcatg 120
taatgcctta tatntggctc ggggtgtgggt aaggctaaag ttgaacttta anggattttc 180
aatgatgact acatcgagac cttcaaacac aattcctgct ccattgcttg cactgttcat 240
cgtgttggtg acaaatagta tccatagaga taaggatacc actatgtaag ttccaccatg 300
aaatctatga gggctttccc ttgactgcc tcttttttcc aaggacaatg tcgtacttag 360
ataattctat tgaccatttc atcatccttt caact 395
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<210>        10891  
<211>        284  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        10891

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gatcttatgc agaatcttct gttatagaag aggttgatgt tgtcttanaa ctcattaaga 60
agacctgngt tatgcttgga attaatagaga tgctacacta atatttggtc tcatgggtct 120
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tatttcatca gtatcttgtc actggccaag tggagaatga tcttctgttt gcatccagta 180  
atctattggc agaagtggg aaagatactg gaggtcaaa agatcctatt tacacacaaa 240  
tcttgaggaa cacattgagt ttgatactaa gttgggcaga gaaa 284

<210> 10892  
<211> 482  
<212> DNA  
<213> Glycine max

<400> 10892

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cttatgtcgt tgggtgccag gagaccctt attctataca tgactgtgtt ggatgggtcg 120  
atggggtgta tgctggggaa gcatgtcttg tccggaaaga gggaaacgggt tgtctactac 180  
ttgagcaaga agttcaacac ctgtgagatg aactactctt tgcttgaaaa gacatgttgt 240  
gccttgggtgt gggcgccaca tcgtcttatg cagtacatgc tgagccacac cacttggttg 300  
gtatccaaga tggaccagc caagtacatt tttgaaaagc ccgttcttac cggacggttc 360  
gtccagtggc aggttctgct atcaaagttc gacatttctt atgtcactca taaggcgata 420  
acggtaagca cctttccga ctatctagct cagtagcccc ttaatgacta ccaactcatg 480  
ca 482

<210> 10893  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10893

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tacttttata actatatttg aaatattcat atttatgact tataatttaa gtattttttt 120  
aataatgaaa acaactacgg ttataacgat taatcatcaa aatgaatact tttgaatgca 180  
atacaataat acattgggtat gtcaatacaa taatacaaca aactattgta catgcatgat 240  
tcactttcaa tgggtgtagt ttcctttgct aatccctcac aatcagagtt tgaagggat 300  
tagaaagggg aggtttcatc cctaacta ctactaaaat aggattttac aatgttgaac 360

caacaacaat ttagcaaat attttgaaaa naaatagtc caactttata aataatcgca 420  
aatattttaa gaatggtttt tc 442

<210> 10894  
<211> 475  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10894

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tttnttctt tttaatcttc attntattta tgtttttctca tgttaataca atacttttct 120  
ctatctaaaa taaaaaaata tcgtattacc attgaaatca ttaattctat tagtcaaata 180  
ttgtcacaat ttgatctctt ttgtgtgcat ttagtcatta tattatatac ttataaattt 240  
ttagggaaaa acaaattatt nattctanaa aatatacttt tacgaaaaga aatatttgta 300  
aatattttaga cctgattaat ccaacccaac ccatttatga ttgggttggg ttgggtatga 360  
aaaaaattat acaaaccga ctagggatgg caacggngca ngtcggngat gagtttgacc 420  
ttccccgtcg agttttatag ggtttgggta tacctgcgag taaccacta cacta 475

<210> 10895  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10895

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tctctaagcc attgttcctg ctactnctca tccctctgat tcagactggc ccattgccat 120  
ccgcaaaggt actagatcct ctogtaatcc tcatcctatc tataactctc taagctatca 180  
tcgcttgtct cttcatatt cttcttttgg gttctctcta tcttcgcatt ctggcccttc 240  
taatattcat gaggcactga ttcacatcctg atggcgacag gctatgattg atgaaatgca 300  
cgctcttgaa catagaggta ctagggaact tgtatccctt cctcctggca agaaagctga 360  
gggttgaga tgggcttata cagttaaagt tgggccta at ggtgag 406

<210> 10896

<211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10896

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 ctttngnggtt tgtctccttg aggaatctgc cagcacttgt ttattgtatt gtatatgaaa 120  
 tangactgga tgattactta attgctactt gtagtcatat taagatatgt gacctcgtct 180  
 tgattttctt tatttgtaag aaaaattgct tgtaaatatt taattaatag ttggggttgca 240  
 attaaatfff atctgagcta tacttggtta aataaatcat attaattagt tcgtgtatag 300  
 attaaaataa aattagcaag ctattagaaa tgttgctata tgtgtgagaa aatgaataac 360  
 tggagttaa ttatatagct agaggagtgt aagattaaat taattaatta ggtgaagggtt 420  
 agattatggt aattaagtta gt 442

<210> 10897  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <400> 10897

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 ttcttagaca aaaccgaatt gatggtatta aactcaacat tcctccattt aaaggaaaga 180  
 atgatccgga ggcctacttg gagtgggaga tgaaaataga gcatgttttc tcatgcaaca 240  
 actatgatga ggaccagaag gtgaagcttg ccgccacaga gttttccgac tatgctcttg 300  
 tgtgggtgga caagctacaa aaggagagag caagatatga agagccaatg gttgatacat 360  
 ggacggagat gaaaaagatc atgatgaagc ggtatgt 397

<210> 10898  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10898



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 cctcggatcc ctgtcagata caatactgga gggaattcca tgcaacctta ctacttcctt 120  
 gatgtacaac tccactagct ntccattct atacttcata ttcaccggaa taaaatgagc 180  
 agatttggtg agtcgatcta ctatgaccca cacagcatca tgttcacgac tagtctgggg 240  
 taaactagat acaaaatcca tagatatgct ctccatttc cattccggaa tttccaatgg 300  
 cttcaattct cctgatggtc gctgggtgctc aaccttagcc ttttgacatg tcanacatct 360  
 tgctacatat tcagctacat ctttcttcat accatgccac caaaaacttc tcttcatatc 420  
 ttggtacatc 430

<210> 10899  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10899

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 aaatacagaa ctggaggatc tggaattnta attttttctc ttcgtattac tgattatata 180  
 agtcctcatc tggttntgtc caggagaaac ttccgggaacc acagctacat tcctaatagt 240  
 ggatagggtgg actgtgactg ttgcatctgt tggagattcc cgttgtatac tatataccca 300  
 ggggtggtgct gttacctcct taactgttga tcaccgactt gaggagaata ttgaagagta 360  
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 actgtatgca cangaggga cgtgtcactt ctagtga 458

<210> 10900  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10900

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 tggcatcata tctggcgcta aactgctgtg gagtggaggc catcttctca gataaatatc 120

tggcttcagc aagaatcatg tctacaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaat gttggagaag acgctgttct gaaatctgat 240  
 ggtgagggca actggcacat atgttcttaa atcgctccca gtactcatac aggctctctc 300  
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 aaaaaatttc tagaatactc tctt 384

<210> 10901  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10901

tcattcttag aatgatgtaa gtagagatac atatatcgtg aataatcttc tattaagggt 60  
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 tctaataaat tagaactcct ctttgcaccc tttttagact tgttagtttg cttaccctta 180  
 atgcaatcta cacaagtctc aaaatcagcg aaatccanag tactaagtac tccttcattt 240  
 actaatcgct tgattcttca atagagatat gtcttaactc ccggtgccac aacatagagg 300  
 attcttcatt cacaatacat cgttttaacc caacagaaac gtgcatagaa gtagcgcat 360  
 tttgcaattc aatcgaataa agacca 386

<210> 10902  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10902

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 gtgactagag acacgaattt aacaagagtt ttgaagaaca aaaagggtctt atcctcttaa 180  
 caagcaaaat tgttttatcc tcttacaat tccttgGCCa aaacacttgt gattcaataa 240  
 ggaattatctt gagggtcaa attgttcaat ctatctcttt canaagagat ttcttcttct 300  
 cttcttcttt attctgaana gggattaaga gaccgagggt ctcttggtgt gaaaggattc 360

taaacacaaa ggaaggattg tccttgtgtg tntagaactt gtacaaggaa tataacaagat 420  
 agtggaactc tcaagcgggt tgcttgtgga ctggacgt 458

<210> 10903  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10903

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 ggcaaaaaga aatcacattn ttaattaatc tcaggaataa agaaaacaaa aaaaatattt 120  
 gatgggtcaa caaggaaatt atcaacatgc cttaagatac agtgtaaggc gagttcctct 180  
 tggaatcagc ttctcgggat ctgtctcctc agatattgta tatgagctag catttgccctc 240  
 cccttcccaa acatattgct tatcggattt tggactcttt gttgagacaa ccaccttcaa 300  
 acaacaaaaa attatataaa taccagatta aacaaaaata ttttaagagca tcacatattt 360  
 acttntacaa anatgcatac ccgatcagaa accagaaaag cagaatataa tcccacacca 420  
 aattgaccaa ttaa 434

<210> 10904  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <400> 10904

gctattcttg tctatttgcg tttgttttta aactttccca gtgtttgtaa gagaattggg 60  
 ttcatttctt gttttaaaat taggagaaaa cattattact ttttttctaa tttattcttc 120  
 agtctcaatt tagttatctt atttttaaaa tatttgtttt ggtcatttag aatgagttca 180  
 atttcatcct ttacaatgat taatgtttta gatttttttt acaaaatata aaaaataaat 240  
 acttcaaaaa aaattaatat ttattagaga cagtcttact aaaatattct tattctctct 300  
 cctaatttca ataaaaatta ttaaactctt taaaatatca ttatttatta catgataaaa 360  
 ttaaaataaa tgtttgaata tcta 384

<210> 10905  
 <211> 463

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10905

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atacatttca aatctttaat tctctagtag attgtagata acaagattat tttaaaaata 120
aaaagacaat tgaacttatt ctattaactt tgttgggcca caagatatga caaaaaatat 180
aattataaac aaagctggca taaataaaaa ctacccacc ttgtatatat aatatactaa 240
aaaaccaa at aaagaaagcc gagctataca taactcaagt ctgactaatt tatttaacga 300
gctcaattnt tagctcaagt ttagctcatt tgattaatga actaaattca acgaattaat 360
tatcaaatca agtgttgact atctgtgagt tgtgttgact cattaccact atgaaatgtg 420
actatagagt tcaagaccag atctacccat ttgcatgtaa tcc 463
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<210> 10906  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10906

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agcttgtagt tcctttctct cctcttctcc acctccatat tcacataagg aataggccac 60
catatctatt tcagacctct agtgcaaagc aagaatattt tctgagcccc ttttagcttc 120
atgatattca ttgttggtga tgaacttccc cagcaactga gtgtctaaca tgctgtgtcg 180
agcaccatat tctcttatcc ttgggatcaa taacgagccc atttgtttga attttggcac 240
gaactctaaa gcatggaaaa tacatttgca tcttaacctc tgccaatgca attatctcaa 300
acatatataa atgccttgaa ccttttataa catttaagtt aactactatt atatgaataa 360
atgaagagtg aagatctgat gcanacaaca ccaagtgttc tgatctgatt accgcatagt 420
gaaaatgaac aatatctgtc cacatggtag tgtttggtgg aaaatgattt gtg 473
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<210> 10907  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <400> 10907

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 caactctgag atgggcaagt cctccacaac aacaacaatc tgtccctcct ttccagaata 120  
 ttgctgatcc aagcacgcca tatgttcctc cttcaatgca gcaacaacaa cagcaatctc 180  
 aacaaagaca acaagcaatt gaggctcctc ctcaaccttc cgtagaagag atagtgaggc 240  
 atatgaccat ccaagatatg ctatctcagc aagagacaag agactccatt cacagtctga 300  
 caaatcagat ggtgcagatg gctactcagt tgaatcaagc tcattcccaa aattctgaca 360  
 aatagccttc acaaact 377

<210> 10908  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10908

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 gatactcact tgtagacaa gtggcctcag atatcttaag aaggggggggt tgaattaaga 120  
 tatcccaaac tgtttccctt aattaaaaat ctatttcact ttttactcaa gttatgaatt 180  
 cccttaatga caatcttctt aaatattaat tcaaatgaag caacttgaat atgaatataa 240  
 agcaataata aataaaggag attaaggga gagaaaatgc aaactcagtt ttatactggt 300  
 tcggccacac ccttgtgcct acgtccagtc cccaagcaac ccgcttgaga gttccactat 360  
 cttgtaaatt cctttttacaa gttctaaaca cacaaggaca atccttcctt tgtgtttaga 420  
 gatcctttac aacaagagac tcacagtctc ttaatccctt agagaatg 468

<210> 10909  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10909

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 aagaaagatg atnggagatg ccacttcaag gagaagatga gtcaagaaca agctcaccac 120  
 cataagaagc catggataag agcttgaagg taggagaaga tgagtggagg gagaaggaga 180

gaacgagcac gaaacttagt tcctcaaagt aggtatgaac tctgaagtgt aattctcaaa 240  
 tgatcaaagt tcaaaaaata cacacatatg gcctctatct atagcctaag tgtcacacaa 300  
 aattgtaggg aaatttgaat ttctattcaa atntcacttg aatntgaaat tgaatctgtg 360  
 gagccaaaat ttcactaatt atgaatagt atnttaggt atgggtcagc ccactaatcc 420  
 aagatcaagt ccaa 434

<210> 10910  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 10910

caagccttca gcgtcccgac atcgcccatg ttcttgtatt cttcctgcaa ttttcaataa 60  
 gaatggatca gtaaccggat ggttcttcat caagaattaa ttttaaaaag tcccattagt 120  
 tctggaatat atatttactt attcaatact gggcgtaag agatgaacat accaggcaga 180  
 ttgcacaagc ctcttcttct tgactttgct cagatgaaca gtatattgtt tctgtcaaat 240  
 acttggaat caaatcctca gacaatcctg tgctcacatg gcctattctc tctccaagt 300  
 caagtagttc ctggtcgagc aaagca 326

<210> 10911  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10911

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 ttcacccgac aaagacactg acaaaaactt atcttctcct tnttgacaa agtatgacaa 120  
 gctgggggca aataaatttt ctcccatct gaccttggat gcaactgtga tcatatcccc 180  
 atctcagcta gatcatgacg ggtattcaag ccctcctcg tcttgccctg aatgttaagg 240  
 agcgtcccaa tgacactgtc acatacattt ttctcccat gcataacatc aatacaatgt 300  
 ctaacgtcta gattagacca gtacggaaga tcaagaaaaa tggacttctt ctcccatatg 360  
 caagtcttac tttatcctt cttttgggcc tttccaaata cagtattcag gtgttgaacc 420

cgctgggtata cctgctcatc agtcaac

447

<210> 10912  
<211> 453  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10912

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tggacctgaa atgctacaac agattaatga acaagtgaag ttgattcgag agaagataac 120  
agcatcccac gataggaaaa agagctatta tgatagaagg aggaagccac tacattttca 180  
ggaaggagag catgtgtttt tgaaggtttc tcccgtaacc cgggtcggaa gagctctcaa 240  
atctaggaag gtgacgcca agtatctagg cccgtatcag attttgaaga agattgggcc 300  
tgtagcttat catatgcct tacctccgag tttatcgaat atgcacctg tgtttcatgt 360  
ctctcaactg agacggtaca acccatatcc atcacatata cttgcagtgg atgaggtaca 420  
ggtgaaagat aacctcacct acagagcaca acc 453

<210> 10913  
<211> 316  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10913

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atcaaagaat gactattctc tctttaccat tgacaaaggt gcttccctcg gtgttctggt 120  
ggtctatgta gatgacattt tgcttgctgg ccccgatgct acatgtgttc attctattca 180  
agccaagctt caagctttgt tcatactaaa gatcctttgg tccttacaat attgtctggg 240  
cctagaaatt gaaagtctat atagggcggt gtcttgactc agtgaaaata tgccctttct 300  
ctgttagagg atactg 316

<210> 10914  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10914

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atgaggtcat ttcttcattt agctttgaag agaatgtcat ggatcactgt atataccaga 120  
aggtcagtgg gagtaagata tgtttccttg tattatacgt agataatatt ctgcttgcca 180  
ctaataataa gggatatgcta tatgaggtga aacaatttct ctaaaagaac ttgatatga 240  
aggatatggg agagggcatct tatgtcatag gcataatgat ccataaaaaa agatctcgag 300  
gcatttttagg cttgtctcaa gacacctata tcaacaaatc tttagagaga tttaatatga 360  
aagaatgttc accaagtgtg gctcccatcg tgaaggggtga cataacttgct ctgagtcatg 420  
ccccaaaatg atntgagcgg aacacatgan aatattatat gcttacagt 469

<210> 10915  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10915

agcttcatgc ttaactatgt atggaaaaac ttcattactg ttgttcaaga catacaagtg 60  
agcttgtaac aaatcttcta cacttggagt gatcgcatgc agtcctcttg aacccttacc 120  
accactctg tcatcatgcc gagactcagg aagcccaaca ggtttagcct tctctaagta 180  
ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaataa atgcttctgg 240  
acgatataga ttctttgtat acccttttaa gatcttcatg tatcgctcaa ccgggtacat 300  
ccaccgtaga taaacaggac cacaacatnt gatttctctg accagatgca caatcaagtg 360  
aatcatgatg tcaaagaaag canggggaaa atacatctgc aactggcaca gtataattgc 420  
ggcctcattt tccaactcat caaacatg 448

<210> 10916  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10916

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catttgctac ccaatgaagc cccctaattgt ctaagaagat catatcttaa ggagttccat 120  
attgtttggt ccaccatgaa gccccctaatt gtctaagaag atcatatctt tctaaaggct 180  
tttcctcatt ctctggaggg agtggcaaaa gattggctat actaccttgc tcccagggtcc 240  
attttcagct gggatgacct taagaggggtg ttcttggaga aattcttccc tgcattctagg 300  
accactgcca tcagaaaaga catttcaggc attaggcaac ttagtggaga gagcttgtat 360  
gaatattgng aaagattcaa gaaattgtgt gcaagctgtc ctcaccacca gatttctaag 420  
caacttcttc ttcaatattt ctatg 445

<210> 10917  
<211> 466  
<212> DNA  
<213> Glycine max

<400> 10917  
acctgcggca tgcaagcttc ggtagagaac ttcattgttg atggaagagg atggaaatct 60  
gttgataaga taaacacttg aagtgaaggc atgggtccaa taatgagaag gcatgttagc 120  
ttgagagagt aaggtaagac caagctccac tatatttgaa tatttgaact gtttaaaaat 180  
ctccaatgtt tctgatttac tttttagtat acctagcaga ttggcttatt tcattcattg 240  
tgtggaatga aaacagggga ttcaagcttg aatgctatta gagtaggtat tgtcagatcg 300  
gagagagtga gagaatgaga ggagagagaa acagaggggt ggagagagtg agaggtagag 360  
gtaaggattt cgagagagac aaagtgaaac tgagagagag gcaccaatac acacaaacca 420  
gactcagga taggactcag ctacactaca accaaacaaa ctggag 466

<210> 10918  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 10918  
tgcacagcat gctgatactg atcatgcata tttgtttgat gatgaccgag gaacaatttg 60  
ggatcaactt gaaacttatg tgcttcaaga gagaagaaaa gctgcttatt cactcgtga 120  
agatgatcaa aggctggcta tgaagatggt tcaaactgag aaacatttgg tattaccatt 180  
ggtttataaa cttattgagc taactttgat attgccggtg tcgacagcat ccgttgaaag 240

agctttttca gcaatgaaaa ttatcaagtc taaattgcgc aataagatca acgatgtgtg 300  
gttcaatgac ttgatgggat gttacaccga gcgggagata ttcaagacac ttgatga 357

<210> 10919  
<211> 317  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10919

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tcgattacca atgcttttaa atggttaaaa atgattttgt aagtgtgtaa tcgattacac 120  
atcatatgta atcgattacc agagcttttg aacgttggac atttgaattt tgaataaaaa 180  
taactgtgta atcgattatg ccaatgttgt aatcgattac caaagaggat tttcgagaaa 240  
atctgcgaac agtcacaact tttcattgga tttatgaatg gccatcaaag gcatttaa 300  
agggtgact tgggcac 317

<210> 10920  
<211> 415  
<212> DNA  
<213> Glycine max  
  
<400> 10920

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ttataaatat aaaaaattca tatgaggaat aagagttaaa attgaacctc tccaaatttt 120  
gaatctgatg aagtaccctt ttttgaatcc ctgtgccaag tcaacattta aacttgaatg 180  
atataaaaaa gaaaaagtaa aagtcagcca cattcagagt tgcttttatc atactttgca 240  
tcaacgcctt ttatcaaggt ggagaatact cggcatttcc catctgtgga tggtgtagca 300  
agaagaatct gcagtttaaa gaaaaacaaa ataaaaacaa agaagatgag catagggggg 360  
tttacatcaa ataacaaata tatttcaaaa cacaattatc taagatttga ttctg 415

<210> 10921  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 10921

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agcaagaaat gaagagccaa tggttgatac atgggcagag atgaaaagga tcatgaggaa 120  
gcagtatgtg ccagctagtt actcaaggga tttgaaattt atgctccaaa aactaaccga 180  
aggcaacaag ggggttaagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
gattgaagaa gatgaggagg taactatgga tcgatttctt aatgggttga ctaatgatac 300  
ccgtgatatt gttaagctgc aagagtttgt tgaaatggat gatttg 346

<210> 10922

<211> 309

<212> DNA

<213> Glycine max

<400> 10922

agcttaccac cataggagac catggataag agtttgaagg tagaagaaga tgagtggagg 60  
aagagggaga gaaggggggc acgaaattta tgcctcagat gatgtatgaa ctttgaagtg 120  
taatttctca aatgatcgaa tttgaaaaat tgcacacaca agacctctat ttatagccta 180  
agtgtcacac aaaattggag gaaaatatga atttcacttg aatttgaatt tgaatttgtg 240  
gagccaaatt tggaaccaa atttcactaa ttatgattag tgaatttcag ctatgggtta 300  
gccactaa 309

<210> 10923

<211> 389

<212> DNA

<213> Glycine max

<400> 10923

agcttgcat tgtggaagat taaaccccgga aagggtatat tagagcacct cactgtgcta 60  
ttaacatcaa accaagtaaa tattataccc ttgcaaagga tagtttagta caccctcggt 120  
gaaatagatc caactacaat accacaacat taaacaataa taaagaattt aacttggaat 180  
aagaaaacac tcatgaaatg attagatcat tatagcccag taaagggcc caagatcaac 240  
ggtttcaaaa aaactgtaca cgatctcatc cacaaaatat ttttactcac aaaattttaa 300  
aaagaaaata taaacaaaac aaactaaaaa tagagagtta gggggtatat tgaattagga 360

tttttaaaaa ctattttaac ataaaaaaa

389

<210> 10924  
<211> 191  
<212> DNA  
<213> Glycine max

<400> 10924

tgtggccctt ttgatttttc taccaccgc tttgcttga ctgtcctatc ccaaaccata 60  
ttgaacatca tagcaactca ataatcaagt gtgctgacag cctaaccctt cgatcacaaa 120  
gaccctttgc agtgtaaacc ttgctgtgcc tatcttttct acctgtggac cgaacaatgt 180  
gccctacttg g 191

<210> 10925  
<211> 428  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10925

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actttctccc ttgttggttg tgattagcat agctcttatt ctctctetca atttgatctt 120  
tgactctctc atgaagcttc ttcacatagt ccgcctttgc ttgaccttct ttatgcttaa 180  
aaacagaaac attaggcata ggcaaaagat caagaggagt tagtgggtta aaaccataaa 240  
caacttcaaa aggagaacaa ttagtggtgc tatgaacagc tctattgtaa gcaaattcaa 300  
catggggtaa acaagcttcc caagttnta agttcttctt caaaactgtc ctaagcaaag 360  
ttcccaaagt cctattaaca acttcccggt gcccatcggt ttgtgggtga ccaagtgggtg 420  
aaaataac 428

<210> 10926  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 10926

tgcctaatta aagcgcaatg gaagacccat tttgtctcat acccacacac aatcgcgggc 60  
cacggattca caacggcaca tcccgatgta atggcagcga acccgccaag caagccgtta 120

cacacgtcaa tcacgttcca gtggccatcc aataaccgct tgctgaacaa cgtcgtcaga 180  
gccgcagtgc tcccagccaa tgtcgtcgtg acagctgtcc tccctatagc gtcctattga 240  
ccataatacc ctccacttcc atacccttg gctattgtca gaaacgaacc atgggtgaag 300  
ccgtaccagc cgaaccataa caaaaacgaa ccaagcacia ctaaagacgc gctgtggcca 360  
cgtaaagcaa ccg 373

<210> 10927  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 10927

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gtgtatatgg aaaccacaat agagtttagt tccattgtgc aactctcaca actcagggta 120  
tcctatatta tgtacactct gatgtttggg ggccacccca ggtactctca ttaggaggag 180  
caaaatattt cataactttc attgatgatt ggtctaagaa agtctggact tatctgtcga 240  
aacataaaaa tcacgctttt aagtgtttca aacaacggaa attgcttggt gagaatcaaa 300  
ctggtaggca tgtgaaactg ctcagaactg ataatggcct cgaatactta agt 353

<210> 10928  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10928

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acataagctt caaccaatta acattgtttg aatgacaact gttgtagttg gacagcaatg 120  
acatagtttg tctccatgg tatgctttat gttcctattg gttatagttt tggtagtctt 180  
tatgttccta ttggttatag ntttggtatg ctttatgttc ctattgggta tagctttggg 240  
gctagaatgt tcaatttgga gtccacaaga ggaggatctc catattgtgc tggagttttt 300  
gttggagatg gtacaagaca agcaagtga atggagctgg agcttgacga gtatcatggc 360  
aagtatatat gaaattaacc cataaaagct a 391

<210> 10929  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 10929

tggatcccaa cactctgttc aggctctcct aaaatctaga ggcaaactta ggatctctat 60  
 cagacactat gctagatggc acaccatgta atctgacaat ctcactaata tatagggagg 120  
 tcaacttctc caaggaaaat ctgatattaa tgggaataaa gtgagtagac ttggtcagtc 180  
 tgtcaagaat aaccagatag aatctaaacc tctaggagtt ctaggtagtc ctacaacaaa 240  
 atccatggaa atactgtcca cttccagtgg ggtatctcca agggttgtaa cttccctgaa 300  
 ggtctctgat gttctatctt agccttctga tagactaaac atgcatacat aaactcatt 359

<210> 10930  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 10930

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 cgagtccaac caaccaatcc caaacaaggt cgtattccat cgaatttttt ggtcatttaa 120  
 ggcatccata gatgtgtttg cattttgtaa acccattgtg caaatcgatg gatcaaggct 180  
 atatggaaga taaaaggga cactgttagt tgcagttgca caagatggcg ctaacaacat 240  
 atttccattg gcattttcca ttgtcgaggg tgagacaaca tatgggtggc actttttttg 300  
 caaaaactga gaacacatgt gacaccacaa catggtatat gcttaatctc tgacaggcat 360  
 gagtcaatca aaagtgcata cagatgacct gacaaggggt ggacagtaga caactcgtca 420  
 catgtgtttt gtattcgaca cat 443

<210> 10931  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 10931

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gaaaaagttt gggttggttg aaaaatttaa ggctctagtt agacttattt cttataatga 120  
 gggctaattt tatgcttgac ctgatcattt ttgaaagttc aataatttag tgaataaaat 180  
 atgttttaga ttgttaataa attagtaaat tttgtatttg tctattaatt ttttcttttg 240  
 cattgagttc ttaataacat aataactttg tttttggtca tggacatttt tttgtgtcct 300  
 ataaattagt gaattttgtg tttgttcctt catttttttc ttttattatt tattcccttt 360  
 gaaaaaaac 369

<210> 10932  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10932

agctntatgt tgactcttat tgtagtcaac atttgaaata tttntaaaag gtaaataaat 60  
 gtaagaattt gatactctat cataatttta atattataat aatactaaaa aaattattat 120  
 aatttatatt tacttaataa tgttgatcta ttagacatta aaaggttttt taaataacct 180  
 aaaatccgat atttttaacc aaatatgttt ttataaaagt tgaaacttga tctatttttg 240  
 aaagaatcta atataacctg aggttattgt gacttatcaa tatataatga aatatatgnt 300  
 aattgactta aaatattttg ttttttctta attattctaa acatatgata aaatacattt 360  
 tttaaataat taaaccanac acttccatgc ttcaaattat ttattttaca 410

<210> 10933  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <400> 10933

tctgttgttc aatttcgaac gtgtcgatat attatgcgcc tgaatcgta ctcagagtta 60  
 aaagttatga ccatttgaat ttctcgagag cttccgttgt tcaattacga cgtctctat 120  
 atattatgcy ccttaatcgg acctccgagt gaaaagttat gaccatttga attggtcaag 180  
 agcttccatt gttcaatttc gagcgtctcg atatattatg cgcccgaatc ggacatccga 240  
 gtgaaaagtt atgaccattt caatttcttg agagcttccg ttgttaaatt tcgagcgtct 300

cgatatatta tgtgcctgaa tcggacctcc gagttaaag ttatgtccat ttgaa 355

<210> 10934  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10934

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 tcagggtgcag gtgctgctac tgggtggaggc acatgaattt ggttttcaga cctcaagggtg 120  
 atggcactca ctttttttgg attctgcaca gtttgtgaag gcaacttgta aaattttggg 180  
 actgagcttg attcatctga gtatccaact accccatttg atttgtcaga ctctgaatgg 240  
 aagctcttgt ctcttcttga aattgcata tctggatggg ctttgcctt actaattctt 300  
 ctatggaagg ttgaggagga gcctcagttg cttgttgtct ttgttgtgac tgttgctgct 360  
 g 361

<210> 10935  
 <211> 197  
 <212> DNA  
 <213> Glycine max  
 <400> 10935

tgacagaata ctgggactgt tgttgatttt attgggcagc caaatgcccc atctgattgg 60  
 gtaagctctg aatggaggct ctggtctctt gctgaaactg catgttccgc atagtcattt 120  
 gcctcacaag ttcttcaagg gaaggttggtg gaggggcctc aactgttggc tgtttctggg 180  
 gttgttgctg ttgttgg 197

<210> 10936  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <400> 10936

tattacgtgt tgatgattat aagacatata tatgtatatg aattgttaaa ataaattagg 60  
 aattaatagt tcaaataata aaattaaatt gaagaaaatt aatatattaa gattcaacaa 120  
 taaatacttt caatgcattt ttagtttaat tatttattaa atcttttttaa ttgaaaataa 180



tatagttcaa tttaatatat acatgttttg tgccatgtaa atattaatac tgtgtgatgt 240  
 ttatatgatt catgaagtct gataacatgt tactttggga ttataacatt gtgattgaga 300  
 ttgagagtat gtgataaatt aagtatgtgt tgaattataa gatacatgtg tattgagatt 360  
 ttg 363

<210> 10937  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10937

agctttntct tccttgtttt cgtntttaat taattaaag gaacgcgaaa acattntggg 60  
 ctagttttga accctcacc tacaagcatg aaaggactcc ctttgccgct aagctactgc 120  
 aatttaatta tttattagtt gcagttcatg tgtatttata acttctgaag gataaatcat 180  
 ttatacacia acggtttaaa attgtgtgtc tctaagttat gctgaacatg caatattatg 240  
 ttaaatattg gtatgcattg gatttgatcc tttaaagttt attacatgtt gaatggatat 300  
 acgtacaatg ttattttgaa ttggtataca tgtaatttct atgattcaat attgagcaca 360  
 tttgcattat taagtatgtt tatgccaaat attattttga atgttaagtg attaataata 420  
 tnttattaaa ttagagaata gccacagcat ctt 453

<210> 10938  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 10938

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 aagcaagcac attgagacta aatttcattt cttgagagat caagtggcta aaggaaaagt 180  
 ttagctaccg cattgcagaa ctgagggttca actagctgac ataatagacta aggctttgaa 240  
 ggctaacata ttcacggagc tgagaatgag aatatgaatt cagagtttgg aggattaaga 300  
 tagtctgttc aataaatgtt gttgtaatgt tcttggtgtt gattcactgt ttttgaatca 360

aagtggggtg ttacggataa tactaaacac ttactaattt gatagtaatt gatggtgatt 420  
agttactttg agatagacta tatatataca 450

<210> 10939  
<211> 294  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 10939

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aaaacctgat tggagaacct tgacaacagt tctttctcca ttataatggc ctccataagg 120  
tgaactatgg aaacgccaca atatgcttct tgctctctcc taagttacac accttcacaa 180  
gaggggtgcc gctctaattg taaacagata aggaccatcc cacacaaaat gtntagcatc 240  
cctgaaaaac ttattctttt ggtgccaggt tagatcatca tggagtgcac caac 294

<210> 10940  
<211> 432  
<212> DNA  
<213> Glycine max  
  
<400> 10940

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gcatcaattc tggcactaaa ttgctgggag ttggaagcca tcttctcaat taaatttctg 120  
gcttcagcag gagtaatgtc tctaagggtc ccaccactgg cagcatctat catacttctc 180  
tccatgttac tgagtccttc ataaaaatat tggagaagaa gctgctctga aatctggtgg 240  
tcatctctcc cagtattcat ataggctctc tccactgagt tgtctaatac ctgaaatatt 300  
ttttctgatg gtcgtgggtc ttggaagcagg gaaatttttt tctaagaata ctctcttgag 360  
gtcatcccag ctctgatag accttggagc aaggtaatat agcaagtcct ttgctactcc 420  
ctataaagaa tg 432

<210> 10941  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 10941

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agtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt ttgagcgtct 120  
cgatatatga cgggactcaa ttagacatct gagtaaaaag ttattgtcgt ttgaattagc 180  
tcagagcttc aacattcaat ttcgagcgtc tcgatatatc acgagactat atcagacatc 240  
cgagtaaaaa gttattgtcg tttgaattcg ctcagagggt caacattcaa tttcgagcgt 300  
ctcgatatat tacgggcctc aatcagacat ccgagtaaaa agatattgtc gtttgaattg 360  
gctc 364

<210> 10942

<211> 439

<212> DNA

<213> Glycine max

<400> 10942

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atatactgag acgctcgaaa tttaatgttg aagctcttag ccaattcaaa cgacaataac 120  
tttttactcg aatgtctgat tgagtcctgt aatataacga gacgctcgaa attgaatgtt 180  
gaagctctga gcccaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240  
tcatatatcg agacgctcga aattgaatgt tgaatctctg agccaattca aacgacaata 300  
actttttact cggatgtctg attgagtcct gtaatatatc gagacgctca gaattgaatg 360  
ttgaagctct gagccaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 420  
cgtcatatat cgagacgct 439

<210> 10943

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10943

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accttccacg ccttctttaa ggcatgtggt ttcttctaag gtggagggcc ttgatcttta 120  
ttagaccaa tttgaggcca ccatagttca tttccagtcg gtcaccatgg aggaggaaca 180

cccttctcta ttgagaacct cctctgacga ggatcacagc gctgcataag tgctgacaag 240  
agagaacca aagctgtgaa ctgtaactct tgcaatgtgt gtagtgtacg accaatggaa 300  
gtgcttccat cattctttcc acgaatagca ttatcggctt gatacttggc tatggcatca 360  
tgaccatttc tatcaaacct gaacttatcc ttacacca 398

<210> 10944  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 10944

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atcgagacgc tcgaaattga ataccgaagc gctgagcaag ttcaaacaac aataactttt 120  
tactcggatg tctgattgag tcccgtata tatcgaaaag ctgcaatgtg aatgtagaag 180  
ctcagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240  
atatcgagat gctcgaaatg gaataccgaa gctctgagca aattcaaaca ataataactt 300  
tttactcgga tgtccgattg agtcccgta tatatcgga cgcttgaaat tgaat 355

<210> 10945  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10945

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taaaaagtta ttgtagtggt aattcgctct aggccttggg attccatttc gagcgtctcg 120  
atatatcacg ggactcaatc ggacatcaga gtaaaaagtt attgttggtta gaattcgtc 180  
agagcttctg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240  
agtaaaaagt gattgttggt tcaatttgcg cagggcttcg gtattccatt tcgagcgtgt 300  
cgatgtatta cgggactcaa tcagacatcc gagtaataag ttattgccga ttgaatctgc 360  
tcacagcttc gacattccat tt 382

<210> 10946

<211> 446  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10946  
  
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 ctacttatct cctcttttca ttatatttag gttctttctca gacgtttgag gttgttcttc 120  
 agtcctgggt atccctatga agaaatttta agcacatttc acaatcagac eggcatagtc 180  
 atgtgctcct acctcccaat gttcaccagc tntaatagaa caaggggtaa acaaaaattaa 240  
 aaattaaaaa tttccctatt tccgattctt gttcgctatt tcttatagga ttaagtcaac 300  
 aactattaac gaacgttgta ttctgcacca ggtggcctga ttcaattgaa ccatggcagg 360  
 cctcagcctc tccaatatgt ggtcaatgca ngccttttgg ctgctcttta cagtgattat 420  
 ctcgatgctg ctgatacacc tggatg 446

<210> 10947  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10947  
  
 ttaattnttt tggaatcaaa taaaaaatca aaaattgtct catattgtaa aaattgttca 60  
 aatcgtgttt caatagaatt aattgattaa tccaatatgt ataaaaaat actcaataca 120  
 aaaagattct tcatgtttat aatatcagag attgattaat tcaatagaat taattgattg 180  
 atcttttgta atactcaatt aattgattaa ttctccaaaa ttaatctcca ttgtaatact 240  
 caattaattg attaattgaa tggagattga ttaattcaat agaattaatt gattgatcta 300  
 atatgtataa aaaatactca atacaaaaag attctttaat agaataaatt tcatgtttgt 360  
 tttaatttaa a 371

<210> 10948  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 10948

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 ggatggcctt gattttctca ggggtccactt ggacccatt tctaccaact acaaacccta 120  
 agaaaactat attatctaca caaaaagtac acttctctat atttgcatag aggggtgtttt 180  
 tcctaaggac taaaagaact tgcctgagat gtcctaattg atcatctagg ctctactgt 240  
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300  
 gatgcataag cctcataaag gtgcttggta cattagttag cccaaaaggc atcactagcc 360  
 attcatacaa accanacttg gtcttgaaag cggttntcca ctcatca 407

<210> 10949  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 10949  
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 tgaaccacgg aagctctcga gtaattcaaa tggtcataac ttttcacaca gatgtccgat 120  
 tcgggcgcat aatatgtcga gtagctcgaa attgaacaac ggaagctgtc gagaaattca 180  
 aatggtcata aattttcaca cggagggtcag attcaggcac ataatatgtc gagatgctcg 240  
 gaattgaacc acgaaagctc tcgagaaatt caaatgggtca taacttttca cacggtatgac 300  
 cgattcaggc gtattacata tacagacgct cgaaatggaa caacgaaagc tct 353

<210> 10950  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10950

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 ttatgaccat ttgagtttct cgagagcttc cgtgggttcaa ttccgagtat ctagacctat 180  
 tatgtgcccg aatctgacct tcgtgtgaaa agttatgacc atttgaattt ctcgagagct 240  
 tccgatgttt aatttcgagc gtctcaatat attgtaagcc tgaatcggag ctcaagtgtga 300

aaagttatga ccatttgtat ttctcgagag ctcccttgggt tcaattccga gcctctcgac 360  
atattatgtg cccgaatctg accttcgtgt gaaaagttat gacctattga atttctcgag 420  
agctnccgat gtttaatttc gagcgtct 448

<210> 10951  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 10951

taagtcctt caactgcaca agactcttaa tatttgaaga gtatccatgt ggaaccttca 60  
cctgacgaag aactgacaa aaacttatct tctccttttt ggacaaagta tgacaagctg 120  
ggggcaagta aattttattc ccacagacc ttggatgcaa ctgtgatcgt atccccatct 180  
tagttagatc ttgacgggta ttcaagccat ccttcatctt gccttgaatg ttaaggagca 240  
tcccaatcac actgtcacat acatttttct ccacatgcat aacatcaata caatgtctaa 300  
cgtctagatc agaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaag 360  
tc 362

<210> 10952  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10952

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aaagctgatt ctcaatccag cagtccctta ccaccttgtg gtaatgcttg ttattaagcc 120  
atccatcaaa gaccttaaaa ggcttaggac cccaatcaat gctcttagat ttcatgagga 180  
tagggcagtg atcagagtag ttcttttcaa ggttgagctg cgaactgtct ggccacttag 240  
aaagccaacc atcagagaca acagctctat ccaatttgct ttacaggaa ccattaggcc 300  
taacccatgt gaactgctta cccacactag gaatatcttc cacctccatg atagcaagcc 360  
aatcattgaa atctgacatg atgctggact ctgaatntcc atgattgctt cccattctct 420  
ctgaagggtg cctaatacaa ttataatcgc caataagaca ccagcatata 470

<210> 10953  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 10953

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atgtgctggt aggaagatcg tggcagtatg ataccactgc agagcatgat ggcttcacca 180
acaacatctt tttgcgcaag ctgacaagaa gattgctttc gcaccgttat ctctgaaga 240
ggtttgtgag gatcatatac aactgagagg attgagaaag agtgatactc ttgtgacgaa 300
aatgagtgag acacttgata acgaaatgtg aggatagaac aagagtgaaa cacttgagac 360
ggaaaagaga gatcacacgt agagtg 386
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<210> 10954  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10954

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gtgctttggt gatggcttct tcccgttcca agcttcaatt ggagtcttgt cttttacaga 120
cttagtcgga catttgatga gtatgtaaac agcagtgtag actactttag ccagaaatgt 180
gttaggtagt cctttctcct taggcacgca tctgtccatt tccataaatg tgtaattctt 240
tctctcggac actccatttt gttgaggaaa atatgtgatt gtaagttggt gctcaatgcc 300
ttcatcctta caaaatcttt canactcgcg agaggtgtac tctctgccgc gatcacttct 360
tagtactttt atccgttttc cactttgatt atcagcaagg gccttgaact ttttgaatac 420
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<210> 10955  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 10955

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agcttgagca atcctttggt aactatgtct cgcacgatat ggcagtcgat ttcaatgtgt 60
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ttagttcgtt cgtggaaaat agggtttgag gctatctgga tggcggactg attatcacia 120  
 tagagagttg caggttgaac gaaggggacc ggaaaatcat gaaggaggta ggtgagccac 180  
 tgaagttcac acgtagtaga agccaaggct ctatactctg cctcagatga actgagagag 240  
 accgtagatt gcttcttgga ccaccaggaa attagagact caccagata gactgagaag 300  
 ccagtgatgg agcgtcgtgt gtcgcaacat cctgccaat cggagtcact gaaagctttg 360  
 agagtgagtg taccttgagc cacgaagaag atgccagaac caggagtcc tttgaggtac 420  
 gt 422

<210> 10956  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 10956  
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 gagtaatgtg gggccagtgg agtgactgt tgaagaatta ccaatggggc ttccatccat 180  
 gattcgtgca ctgactttc ctacgctcac tgcctctccc tgcttcttct tcgagccat 240  
 gtgccatttc ttcagagcct tgtttgtgtg ctgctcaaat attgctgttt tcatccttga 300  
 acccatctgc gtgtatgtat gtgtgcgttt acagcgatac attgtcgtcc attagaccaa 360  
 t 361

<210> 10957  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 10957

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 cgttgttcaa tttcgagcgt ctgatatat tatgcgcctg aatcggactt tcgtgtgata 120  
 agttatgacc atatgaattt cttgagagct ttcgttggtc aattatgagc ttctcaatat 180  
 actatgcacc ttaatcggac ttccgtgtga taaggatga ccatttgaat ttcttgaggg 240  
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gataagttat gacca

315

<210> 10958  
<211> 589  
<212> DNA  
<213> Glycine max

<400> 10958

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catcaacatc aggaatatga agagcatgat accaagcatt agaggagaaa gaattgtccc 120  
gtagattctc aaaataccca gtttctaaac tgtattgata tagccagtat aatgagtga 180  
attcagtagt taaagcatgg attaaccagt caactcttgg ccagaaattg gcataattct 240  
ccttcaaaaag catggatttt aatttttaggt gataggattc tattgcagca tgtggctcag 300  
gagttgtcac agagagtgat tttatggcat taatccacat atctgcatga gaagcacagt 360  
aatatggtta ttcaagaaac aatattaatg cagaatactc aaatgactgg atagtccact 420  
aattatgatg aaaataatta gtcaattgta gaaaatgcta gtgtgagtgt tgccaagaa 480  
aacttaaggc actcatctgg aggtgggact aagaatgaaa tgaatttgat ataaaatctg 540  
aatcagaatg tttctgatca aaactgacta tgatgtgagg ctacaacag 589

<210> 10959  
<211> 562  
<212> DNA  
<213> Glycine max

<400> 10959

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ctgcagagtc ggtcatccaa gaatctgctg agtatttgaa ggacatgagt gaagaagaat 180  
tgatggaaat gtgtgacctc aaccatttgt tagatgaatt ggggccacgt ttcaaagatt 240  
ggacaggcgg tcaaccattg cctgttgatg cagacttggt gccagctgtg gttccaggat 300  
ataaaacccc attcagactt cttccttata ggataaggcc ttgtttaacc aacaaggaaa 360  
tgactaactt ccgtaggctt gcaagaacaa cagctccaca ttttgccctt ggtaagcaag 420  
aaactatcta gttaaattca tgtcttgcaa tttgcaaag tctctttcta atagatacta 480

tttgtttgct aatgcaggca gaaacagaga attgcaaagt ctggctcgtg ctatggtgaa 540  
actgtgggaa acaagtgcta tt 562

<210> 10960  
<211> 379  
<212> DNA  
<213> Glycine max  
  
<400> 10960

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cgtaagccat caacaaaatc tcttcttctt catctaattc atcataattt gctttctttt 180  
ccaaggcagg acactcatat gggaaatttc ctagtttgtg acatttgaaa cactcaatag 240  
tggctttatt gaaggattgt ctacctctcc ctctgccacg tcctcctcta tacgcacctc 300  
gaccccggcc tctgatgggt ccacctctt gagtgttttg gcgagtgtgt tcttcatgag 360  
gtgccttcaa cacatgctc 379

<210> 10961  
<211> 647  
<212> DNA  
<213> Glycine max  
  
<400> 10961

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agaattgaat caaagtggag aggattgtat caagtagtcc tcaatagaat ggtgtagcta 120  
agtgtatgaa ctaaacattg actgaaagag ttagaagctt acatgtacag tcaagcctac 180  
gaaagcagtt ttgggcagaa gctatgaaca caacaactta cttgattaac cgaggtccac 240  
tagtaccatt ggaacataga atactagaag aggtattgag tgaaaaaagg tcaaacttac 300  
gcatctaaag tttttggttg tgtaacttat gtgcatatta gtgatcaagg aaaaaataaa 360  
cttgatccca aataaaaaaa gtgcactttt attgggttatg gtgaggatga ttttgactac 420  
cgcttttggg ataataaaaa aaaatgatga tttgtagtag agatgtgatc tttaatgaaa 480  
gaataatgta aaatgaaaaa cataacatag aactaacia ctcaaacag agtgagtcaa 540  
tgtatgtaga ggtggatgat gtcccaaaaa ctcttgtaat tgtgagtcac caaccagagg 600

aatcaatgga agataacagt gaaccacatt tcaacatacg agatcat 647

<210> 10962

<211> 567

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10962

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tttgggcgta ttcttttgaa agaatcgtgc cctctttttg cacatgttct atagttgcat 180

cctatccgaa gacattatac tgacactgcc taacgaaggc aaccactagg tcattccaag 240

aatggactcg ggaaggttcc aagttagtgt accaggtaac agctacccca gtaagacttt 300

cttgaagga atgtatcagc aattccttat cttttgtgta tgcccccac tccgataat 360

gcatcttttag atgggttcttg gggcaagtag tcctctcgta cttgtcaaag tccagcacct 420

tgaacttggg aggggtgatg atattgggta ctangaacaa ctctcctagg ttagcaaagg 480

cataatcttc acctccttca atggccatga gcctttcctc tagatgatcc cacttttcca 540

tttctgccat agcatgaggg tttttac 567

<210> 10963

<211> 653

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 10963

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agtaatatcc gagtttaacc ctgagcgaaa ataattacta gatatttaag tccaaaaaaa 180

tatcattagc aaaaacacac aattagatgt tttttaagat atttagtaag cacatcttat 240

acttgatcaa acaagtaata acttaaggct aagcattgta agtaacacta aataaaatta 300

aattggatgt gtcttaagaa tattaattaa ttcttaaaaa tcacattaa aaaaaaaaag 360

aaagacatca ataatatatt ttaataaaaa atttaacttt tattcccttc cctccttttt 420

tatttataag acctaagttt aaaattgtat ttgtttcttt ttatcagatc taatctaatac 480  
 tataatattt ttggaattaa ttattttaaa aatatacttc attaaaagaa gataaaaaaa 540  
 tatattaata aataattaaa agaaaaaaat attattaaca atgataattt aaaaaaaatg 600  
 atgaatttaa cataattnta ttattatcaa ttaaaattat tattttttttt aat 653

<210> 10964  
 <211> 538  
 <212> DNA  
 <213> Glycine max

<400> 10964

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 gcttgacgca tcttacttca tatgtcttga aaatacatga gagtgggtcat cctcttaata 180  
 ttccctccac gatactgctt taatctctaa ccatttacta cccatgggtct gtctagatgt 240  
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 ggcccaaacc atttggattt catcttgccg gaaaataatt tcaatcttga attgaacaaa 360  
 aaacattttg tgccctagct ggaactcctt tttaagcagc tttttatcat gataggcctt 420  
 cactttttca ttgacaattc ttgaagactc ttaggcattc atcctcattt tttctaactc 480  
 taagagttga aacttccttt tttctcctgc taaggactca tcaaaattaa ggaatttc 538

<210> 10965  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 10965

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 acgattaaga ggcagccaga tattgatgct tatgacactg gtgggttgact gctagatgat 180  
 atttctggag atataaagct taagaaggtc tgcttttagt atacttctag acctgatgag 240  
 caaatattca atggattttc aatttcaata ccaagtgaca ctactgcagc tttggtaggg 300  
 caaagtggaa gtgagaaatc aacaattatt agtttaattg agagatttta tgatccacaa 360

gctggtgaag ttctcattga

380

<210> 10966

<211> 622

<212> DNA

<213> Glycine max

<400> 10966

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gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120

tggtgttcct agacaaaacc gaattgatgg tattaactc aacattcctc catttaaagg 180

aaagaatgat cgggaggcct acttgagtg ggagatgaaa atagagcatg ttttctcatg 240

caacaactat gaggaggacc aaaaggtgaa gcttgccgcc acggagtgtt cgggctatgc 300

tcttgtgtgg tggaacaagc taaaaagga gagagcaaga aatgaagagc caatggttga 360

tacatggacg gagatgaaaa agatcatgag gaagcggat gtgccggcta gttactcaag 420

ggacttgaaa ttcaagctcc aaaaactaac ccaaggcaac aagggggttg aggagtattt 480

caggaaatgg atgtgctcat gattcaagca aatattgaag aagatgagga ggtaactatg 540

gctcgatttc ttaatggttt gactaatgat atccgtgata ttgttgagct gcaagagttt 600

gttgaaatgg atgatttgct tc 622

<210> 10967

<211> 566

<212> DNA

<213> Glycine max

<400> 10967

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ttgggataaa ggtagtgttg ccatgttttc aaagcccgt aagagcata caactcctta 120

tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180

tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240

aaagattttt gaaagtttgg caacgcaagt atgggggcat tagttagctt ttgcttaaga 300

acattgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcact 360

tcattgagag gtgctgccaa tgtgctaaaa tcttccacaa atcgtctata aaaacttgct 420

aagccatgaa aacttctcac ctcggtcaca gacttaggtg taggccattc ttgaataggc 480  
 ctaacctttc tctcatcaac ttgcactcct tttgaactca caccaaaacc aagaaacaca 540  
 acatgggttag tccaaaagat gcattt 566

<210> 10968  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 10968

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 atgctctggt ggcaagcaca ttagccgtct gatctttctc tcttggaatg tggcggaaag 120  
 agacctcatc aagaactcaa ttaccttctt gatgtatgcc tgatagggca tcaactcgtg 180  
 atccctagtt tgccattctc ccctcatctg gcgaattacc aaggctgagt ctctgctcac 240  
 tttaaccaat tcgacattta agtcaattgc cacttggatt ccgagggcac atgcctcata 300  
 ctcagccata ttattcgtgc aatcgaag 328

<210> 10969  
 <211> 650  
 <212> DNA  
 <213> Glycine max

<400> 10969

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 agcaggtgtc tatatggagt atggataatt tttgtatact agaaaagtaa tgatatatat 180  
 cacatacctc agtaacatat tttctctctt tatctcacga attctattac attatctcac 240  
 ttatcatatt tatatacttt tctcttggtg gatcaagtgg tctcggatta attaagaagg 300  
 ggggggttgaa ttaattttta atgtgtcttg actaattaaa aattatcctt cttaatatta 360  
 ctagattcaa ttaggcttta ctattaagtt atgaggaagt aaagaacaaa aacaataact 420  
 tagacaaaag taaagcggaa ataaaagtac gtagcggaaa agtaaaaagt gtagggaaga 480  
 agaagacaaa cacaagattt atactgggtc ggccacaacc catgcctaca tccagtcccc 540  
 aagcaaccac tgggttcttga gatttctaata aaccttgtaa aatcctttac aagcaaagat 600

ccacaaggga tgtaccctcc cttgttctct ttgaacaacc aagtggatgt 650

<210> 10970  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 10970

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aaaactagag atttggatca cgtaaagtgt gttaaggatg aagaaagcaa aggcttagtg 120  
catgaaaaag atatcaagga aaggtggaag gtgtatttcc acaacttatt taatgatgga 180  
tatggatatg actctagcag tctagacaca agagaagagg accggaacta taagtattat 240  
cgtcggattc agaaacagga agtaaaggaa gcgttgaaaa gaatgagtaa cggttaaggcg 300  
gtggggccaa acaacatacc tattgaagtg tggaaaactc ttggagatag aggtcttgag 360  
tggctcacca aactctttaa tgaaattatg aggtcaaaac gcatgcccga 410

<210> 10971  
<211> 594  
<212> DNA  
<213> Glycine max

<400> 10971

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tagcggagac ggggtattcc ctcttgctcc ccaaggcttc tttgtgtcac ttgaatttgg 120  
ccactgatgg catcacgcaa acaccgaaag tggcgagaaa ttgttcttaa agcaagcgta 180  
gtatatgggt ctgctgctcc acaccggca accatgtcaa aagatgacac cacaatctgc 240  
atctgatggc agtactgtct gtatctttta tctacctata accagtggaa acaaggaatt 300  
ttttatggag tccgccattg gccgacacta tcatgaattc ataactaact gtcttttcaa 360  
tagttaaaca caccgttcaa actttggagc aacaaatgaa ttctacaaac attatagata 420  
taactgtaga gcaatattat gtctctttaa ttaatcttca ttcaaataga attaaaaacg 480  
tataaacttt gtgaacatca actatataat taatggcttt atgggtggtgc accagttcaa 540  
tctgacgtga cagctaacat ttcaaaacca ttaccttcg ttactggttt gggc 594



<210> 10972  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 10972

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ttcagatcat ccogtgttgc caacaattcc aagaaagaaa cgtaacgtgc taacttcctt 120
tctctttgga aagaaatctc aaaactctac aaacaaaggg accaataagc tttcttctgt 180
tggtgttgtg gaggaattat ttgaagaggg ttctgcaatg cttacagaga ggtaactggg 240
accataactg ctaaatttat atttgcattga tgtcatttga agtttaattt gtcaccatca 300
tggtggaaag agagaaaaaa tgatcctttt ttcccaatac atctatcttt gattcttaaa 360
ttttcggact taaaatgcag gttaggcaag gattttccat ctaatacgaa tcctgagatg 420
ttccgctgtg cggtttgcca agcagatcag ccctctgtgg acagtttatc aatgaacact 480
gggccttggt tccccccagt atc 503
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<210> 10973  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<400> 10973

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tgaagtgggt ttataaagtg aaggtgaaat ccaaatgagg ccagacttgt ggcaaaaggg 180
ttcttatgaa aacctggagt tgactatggt gaggtctatg cacctgtggc aagaatagaa 240
acagtgagat tgggtggtagc aattgcaa ataaaagggtt ggtctatgca taaactagat 300
gtgaagtctg ctttcttaaa tggacagcta gatgaggagg tttatgtgga ccagccactc 360
tttgagaaat tgggacaaga agaaaaggta tacagattga gaaaggcaat atatggtctt 420
aagcaagctc caaggggctg gaacaaaaaa attgacagct ttctt 465
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<210> 10974  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<400> 10974

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gtccttacta atttaaaatt taaccctttt aatgttacta gatttccaat tagctttttac 180  
tactaacttt agaaagtaaa gaacataaat aaaaacttat ccaaaagtaa aagcgataat 240  
taaaagtcca tagcagaaat taaagagtgt atggcagaat aatacaaacc cccgatttat 300  
actgggtctg ccacataccg tgcctacatc caatcctcca gcaacctgct gttcttgaga 360  
tttcttttaa cccttgtaaa tcctttacat gccaaagatc cacaagggat gtccccttcc 420  
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<210> 10975

<211> 499

<212> DNA

<213> Glycine max

<400> 10975

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tgattgagtc ccgtaatata tcgagacccg tgaaattgaa tgttgaagct ctgagccaat 120  
tcaaacgaca ataacgtttt actcggatgt ctgattgagt cccgtcatat accgagacgc 180  
tcgaaattga atgttgaaac ttcgagccaa ttttaaacga caataacctt ttactcggat 240  
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aatttgaacg acaataactt ttactcggga tgtctgattg agtcccgtaa tatatcgaga 360  
cgctcgaaat tgaatgttga agctttgagc caattcaaac gacattaact tttttatctc 420  
ggatgtctga ttgagtcccc taatatatct gagacgctcg aaattgaatg ttgaaccttt 480  
tgagcaattc aaacgacaa 499

<210> 10976

<211> 544

<212> DNA

<213> Glycine max

<400> 10976

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 atatattacg ggactcaatc agatatccga gtaaaacttt attgtcgttt gaattggctc 180  
 agaggttcaa cattcaattt cgagcgtctc gatatgttat gggactcaat cagacatccc 240  
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 taagagcttc aacattcaat ttcgagcgtc tcgttatatt acgggactca atcagatata 420  
 cgagtaaaaa agtattgtcg tttgaattgg ctcaaagctt aaacattcac tttcgagcgc 480  
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 gctc 544

<210> 10977  
 <211> 521  
 <212> DNA  
 <213> Glycine max

<400> 10977  
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 tgggtggctaa agattgcttc cacgagatat ttcttccatg cacacttatt atgatctatt 240  
 aaatcatcca ctcttaagcc ataattttca tttgaaggaa aagtcgagac ataggaattg 300  
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 gaattatgcc ccaattgtgc atccaaaaaa tccaccgacg gaaaataatt ggctttgaaa 480  
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<210> 10978  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<400> 10978  
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 gacgaattcc actctactcc tatcgcggtt cacctcgact ttgccaagac actccattgc 420  
 atacaagtca gtttccactg gaacaccctc agccgtgacg ttaagcgttt tattcgacaa 480  
 tgcccgaat gccacaagt caaata 506

<210> 10979  
 <211> 613  
 <212> DNA  
 <213> Glycine max

<400> 10979  
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 ctgataaagt ttgcctacta taggagttat caactgattc ttctcaacat gttcgctctg 480  
 cactggcttc tggtataatg ggtatggcac cgggtgttagg gaaggatat aaattactat 540  
 ctaaactcat tatttatact gacataaatt taacacattt aaagtcattc caaatgtggc 600  
 ttaagttatt atg 613

<210> 10980  
 <211> 568  
 <212> DNA  
 <213> Glycine max

<400> 10980

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 gttagtgcctt agctctactg agtttttaaaa gattggctaa gattttgtta aaacataagc 180  
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<210> 10981  
 <211> 610  
 <212> DNA  
 <213> Glycine max

<400> 10981

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 cctttgtttg tgatactttc catagagcaa aacagagaaa actcccattt cccaatagtg 240  
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 cctatgttga gaggcaattc aatacaaaag tgaaagctat ccgatcagac aatggtgcag 480  
 aatttattat gaaacatttt tatcataata ctggtatcat acaccaaact tcttgtgttg 540  
 aaaccccccc tctcaaagtg aaatatggaa agaaagccat cacatttatt aaatgttact 600  
 cgaacccttt 610

<210> 10982  
 <211> 647

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 10982

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cagcattatt gtgtttgccc gttaatatgtt acgtgggtttt tgcgaggaat aaaattttgt 180  
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aacgttcaca tttgagagat ataattattc tcgatgtttt cttcgggtgtt ttaaaaaaag 300  
atagcgcggt aacgcacggt ttcatataat aaattatgta tcagatttaa aaattaattt 360  
aaaattcaag ctatagttca tagaatgaca agttgacaat aactaagctt gtgaaataat 420  
ttattttggg cacggaactt cattntttta caacaaaaaa aaacaaattc actatttatt 480  
gtatttcttt agcaaaaaat ttatgccaat tgcttaaacc ataaggata actaacttga 540  
tctctctttt tttccagtaa aaaaaaaaac gtgatctctt cttaaaagat atatgattat 600  
ttatttttac cacgtattat tttcattaaa aattaataaa aatttat 647

<210> 10983  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 10983

atgggtccaa gtggcttctt ataccaatgc caccagaaagt gtgggtgtca gattcataaa 60  
gagggaaactg atttgtcgat acggactccc taggtagatc attactgaca atggcaccaa 120  
tctgaacaat aaaatgatgc aggaaatgtg cggggatttc aagatccagc atcataactc 180  
tacccttat cggccaaaga tgaatggggc tgtagaggct gcaaataaaa atattaagaa 240  
gattattcag aagatgacgg tgtcatacaa agattggcat gagatgctgc ctttcgcctt 300  
gcacggatat agaacctcgg taaaaacttc tactggggca acgcatatt ctttggttta 360  
tgggatggaa gcggtactcc catttgaggt agaagtcctt tcccagaaat actagcggaa 420  
tca 423

<210> 10984

<211> 484  
<212> DNA  
<213> Glycine max

<400> 10984

tcatgagaga gtcaaagatc aaattgagag gtttaaataa aagctatgct aaacaagcca 60  
acaaagggag aaagaagggt gtcttcgaac ccggagattg ggtttgggtg cacatgagaa 120  
aagaaagggt tccggaacaa aggaaatcaa agcttcaacc aaggggagat ggaccatttc 180  
aagtgcttga aagaatcaat gacaatgctt acaaagttga gctgcccgtg gagtataatg 240  
ttagttccac cttcaatgtc tctgatttat ctctttttga tacagatgga gaatccgatt 300  
tgaggacaaa tcctttctca gagggagaga atgatgagga catgaccaag agcaagggca 360  
aggatccact tgaaggactt ggaggaccta tgacaagggc tagagcaagg aaagccaaag 420  
aagctcttca acaagtgtg tccatactat ttgaatacaa gcccaagttt caaggaaaaa 480  
agtc 484

<210> 10985  
<211> 605  
<212> DNA  
<213> Glycine max

<400> 10985

agcttgaaat tgaaaaacgg aagatgtcta ttaattcaaa tggtcataac ttatcacacc 60  
gaagtccgat tcaggcacat aatatatcga gacgctcgaa attgaacaac ggaagctctc 120  
gagaaattca aatggtcata acttttcaaa tggaagtccg attcaggtgc ataatatatc 180  
gagaagcttg aaattgaaca aaggaagctc tcgagaaatt caaatgggtca taacttatca 240  
cacggaagtc cgattcaaga gcatactatg tgaagatgct cgaaattgaa caacgaaagc 300  
tctcgagaaa ttcaaatggt cataacttgc cacacggaag tccgattcag acgcataata 360  
taccgagacg ctcgaaattg aacaatgaaa gctctcaaca aattcaaatt gtcaaaactt 420  
gtgacacaga agtccgattc aggcgcataa tatatcgaga agcttgaaat tgaacaacgg 480  
aggctctoga gaaattcaaa tggtcataaa gtgtcacacg gaagtccgat tccgggggat 540  
agtatatoga gaagggtcaaa attgaacaac ggaagctctc gagaaattca aatggtcata 600  
acttt 605

<210> 10986  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 10986

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agcttctcgg tacatcacgg gcttcattct tacacccatg tcaaaagtta tggccctgtg   60
aattgggtcca cagcttcctt gttaagtttc gagcgtctcg atatatcatg tgtctgaatc  120
ggacatccga gtgaaaagtt atgacaatth taatttgctg agaacttaca ttattcaatt  180
tggagcgtct ctatagatca tgggcctaaa tcatacactc atgtgaaaag ttatggccga  240
ttgaattgga ccatagcttt ctgcttaat atcgagcgtt gttgtatatt atgtgccaga  300
atgtgacatt cgacgcctta gacatgacca tgggaatggt tctagaggta catctttaat  360
tctgtgcac atgatatact atgggcctga gtcggacata caaggtaaag gtcatgagca  420
tttggattat ttgagaactt                                     440
  
```

<210> 10987  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<400> 10987

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agcttccaag aatcaagatc aagattcttg actcaagatt caagaatcaa gagaagactt   60
aatcaagata agtattaaaa agtttttcaa aaactgagta gcacatgaat ctttctcaac  120
cccccttctt aattattctg aggccacttg atccaacaag tggatcaga gcaattatct  180
tgtagaaagt ctaaccactt caagattcat ggcctcttca aatcctttgt ttctgaagg  240
aaattccatt catagaccac ccattttcaa tggtgagggt taccattatt ggaaaacccg  300
tatgcagatt tttattgaag ccatagatct aaatatttgg gaagcaatag aaataagacc  360
atacatccc actgtagtag atgtaagcac aagcactaca acacaaaaac ctagagataa  420
gtggacaaaa gaagatagaa gaagaatcca gtttgatctc aaagccaaaa acattattac  480
ttcagcctta ggaatatatg agtattttag agtgtcaaaa tgtacaaatg ccaaagagat  540
gtgggatact ctcca                                     555
  
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<210> 10988



<211> 598  
 <212> DNA  
 <213> Glycine max

<400> 10988

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agcttgttgt caccatcaac aatctgtttg ttcttgaagt aactagcctt gccaaaaccc 60
tcctcagggg aatggccact cccatttga gtcgaggtgt gttggccgtc ggactcagag 120
ttcacaacct ctcccccca ctcaatcatt gacgcgtgtg cagagaggta cgagaataga 180
ggagccggcc agtatcccat aacatggtca ttcccaaact gcatccacca gttaccctct 240
ttggggtcct acatacatat tggttttcca taatagacaa catcagatgg cattgttcca 300
tattaataaa ttcatggacc ctaaaaaata atgcagcatt cacgtataat gaaatgtag 360
tgtcagagat tctcttgatt tataattaac tagtgtggtc tgcacaaaac agtggtgtta 420
atatattaat ggtgcattat ggtagtggtt gttaagtgtt gggcgtatct ttatgccaga 480
atgtccaata tcaagagata atatataaaa tggaaataaa taaataaaaa atgtaccttt 540
cagaccagga tgctgatatc atattgggaa gagctatact taaaaaaggg ggagatgc 598
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<210> 10989  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 10989

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atcaactatg catctggcag aaaacatgaa tggccttacc aatattagct gaatggccgt 60
atctacacaa atatgcatca cactgattc tgtcgggaag ataaagagtt tctactacgac 120
catgacatct ttaatgacta aaataggatg gattatggat gcacctgcta cttgcaaagt 180
catctcttac gggcatgatc tgcaactgtt ccaaacttat acacatggag agcgggatta 240
caggaaagaa ggctcctaag tcactaagag cttttttcac agtgacttct gcaattgaac 300
agggagtatt gacactgcca ttgttttttt gctaggggtg taagatc 347
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<210> 10990  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 10990

caacgaactc tatgaccatc tccttggaga gaagcatttt tctaataaac agacattcag 60  
tctctatgtg cttatttctc ctatgaaaga ctgaatttga cgcagatctg aatagcagcc 120  
ggattatcag aatccaactt catttgcaac tatacacaga acctcaattc ttgccgaaag 180  
tgaatacccc acatgagtgg, acaagttacc atagccatag atcgacattc aagtgtctga 240  
ctagatctat cgacgacagg atgcttcttg cttttgagag agagacaatt tccttccacg 300  
aagactcaag cgcctagggg agacctccta ttaatggga 339

<210> 10991  
<211> 483  
<212> DNA  
<213> Glycine max

<400> 10991

ttatatccc tgagactagg ctcaagccct tttatttaca ctatatcaga ggtgagtga 60  
cctattagca gtgacccctt tgttctagta attattattt gtgttggtgt tcatgaagca 120  
ctatctagta tgaattttaa ttggttgcaa taggatttca atgtaaagggt gaattttttg 180  
gagaataatt ttcctttgat cttacttcgt ctgctgaatt cctaaggatt attgttggtc 240  
tggttttcta tataagccta aggaatcaat cctggcaaac cctatgatcc gcattcccag 300  
cggatctagg gtgaaccaat ttggcggtcc tgctttgcac atgagaagga atgttggtt 360  
gagagttagg tccatgggtg agatagtga tcacaacaca aatttcagtt ctcatagaat 420  
acatgcatag tgtttttgtt acatgtagaa atattatttg ggattgttcc ttcaacattt 480  
atg 483

<210> 10992  
<211> 506  
<212> DNA  
<213> Glycine max

<400> 10992

tcccgacaaa cacttggagg agaagaagaa tttttgaaga aaaaagttaa aattaactta 60  
cgaaccttac aattattaga atctttctca tctaactact ccaaaagttg actgcataac 120  
gtgattttat cttagtggag aagttttatt tattttacct ccctatttct tctcctatag 180  
gtgattgtag aatgtacaga agcttataca aattgaacta ttactttgct tatccaataa 240

gattagattt atatacttgc tagatgcata gtctattaaa aagtaatatt acacgaagtt 300  
 ttggattatt gaatttagtc tcgtagcagt ttattattta ttataaattg aaaatccttt 360  
 ttgaacactt tgtttaatcg ggttgacta gttattgaac taaccattac ttgacctatt 420  
 aatggtagta tacatctcat atcatctcac tggataatat ttctctctgc gccataattt 480  
 caacatggaa tcaaagaagt atatca 506

<210> 10993  
 <211> 642  
 <212> DNA  
 <213> Glycine max

<400> 10993

agcttctcag ggaaaaatct tgacggttag gattccaatg gatatccatt ccaccccaaa 60  
 tatctcaagt ttttaggtaa gaattcaaga ccctttggaa ggtacactga attaatcttc 120  
 tcagagtctc cattgtgaga ttgaaagtg agtaatctca ggtttggcat ctttctgaat 180  
 actttggagc ttaaatttat atgtgtaatt tgagtcatat ctaaccatat tccttcaact 240  
 gcagcagttc cctgacaaat aataattaga attaatgttt acatcttttg taataatttg 300  
 cattttttat accaagagtt taggaatgca agtcaaagta tcattaacat actctattat 360  
 ttgtcaatac atcatagatt tccacaggat ccacaaatct actgcgttgc cctggaaatt 420  
 taacagattc ttcacgaaca acttctctac ccatttcttg tatcagatcg tgcatatcta 480  
 tgcaattgct atatgtagta gtgataagag ctttgtctaa aagacttctt atccctatat 540  
 cagcagaaaa atcgagtc ttaatatatt tgttacatgg tctctgcttt gtcctttaag 600  
 aaaacagcta tgtctaaaaa aatgtttttc tcatcatcat ct 642

<210> 10994  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<400> 10994

acagtagagc cgaccggctg gcatgctagc ttggcgcgtc aacttacatt tgacttccag 60  
 aggaacctca tgttgaagaa atgatgcccg ccacaacgta aggtccatc cccaaatgga 120  
 ctgtctctga tctcaagctt ctgcagatta ggacatcctt tcagaacata tcggagtccc 180

agatcaatgt ctccagcaga ggctactgac cgcgccctaa tcgacttccc atacgtgcga 240  
 ttgtaagtca aagcccgatc agtcctttta ccagacacag aatgccgagt gagcttctctg 300  
 cgttcataac gatggcacca aaaccctcat ccatgggttc tagcgactct gggcctggcc 360  
 tataccgtcc aaatttgcac aacctaaaca cctcaacatc cgggcagttg ttcgacatgg 420  
 ctaccacggc agcattcgcc atcctctggc acattaacag aatcgactgc agtttcctac 480  
 aacctcgaga aaacggcttc aaaccccacc tt 512

<210> 10995  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 10995

ttgagccaat tctaacgata ataacttttt actcggatgt tcgattgagt cccgtaatat 60  
 attgacacgc tcgaaattga atgttgaagc tctgagccaa ttcaaacaac aataaatttt 120  
 tactcggatg tccgattcag tgacgtaata tatcgggacg ctcgaaattg aatgttgaac 180  
 ctctcagcca actcaaacga caataacttt ttactcggat gtctgattga gtcccgaact 240  
 atatcgagac gctcgaaata gaatgttgaa cctctaagcc aattcaaacg acaataacat 300  
 tttattgg 308

<210> 10996  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 10996

cagcttgtag atctcaacct atcacataat attcttgaag gggagctgaa cttgactgga 60  
 ttgataggct tgcgcacatt agacttgtca aataacagat tttatgggga tattgggttg 120  
 aatttccctt ccatttgtgc caatttagtc gttgcgaatg tctcaggtaa taaattgact 180  
 ggtgtgattg aaaactgctt tgatcaatgt ctcaagttgc agtacttgga tttgagcacc 240  
 aacaatctga gtggaagcat atggatgaag ttttcgaggc tcaaagagtt ttctgttgcg 300  
 gagaaccatc taaatgggac tattcctttg gaagcttttt ctttgaattg tagccttcaa 360  
 aaactagacc ttttacaaaa tggattttgc tg 392

<210> 10997  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<400> 10997

agcttgaatc ggacatccgt gtgaaaagtt atgagcattt gaattactca agagcttcca 60  
 ttgttcaatt tcgagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120  
 ttatgaccat ttgaatttct caagagcttc cgttgttcaa tttcgagcct ctcgacatat 180  
 tatgcgcttg aatcggatat ccgtgtgaaa agttatgacc atttgaatat ctcgacagct 240  
 tctgatgttt aattcgagcg tatcaatata ttattagcct gaatcgaacc tcagtgtgaa 300  
 aagttatgac cattttaatt tcccgagaac ttccgttttt cattttcgag cgtctctata 360  
 tgtgatgctc cttaatataa catccgcgtg aaaagttatg accatttgaa tttcttcaag 420  
 agcctccgtt gttcaatttg agcgtctcga tatgtgattt gcctgaatcg gacattccgg 480  
 ggaaaagtta agaccctttt aaatt 505

<210> 10998  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<400> 10998

agcttgtagg gttaaagtct cacgattggt acatgctgat gcaataattg ttaggcgtga 60  
 ctatacgaga catcttgcca aacaaagtca ggttatccat aactcacctg tgcttttttt 120  
 accatgccat atatagcaaa gtcattgatc ctgtcaagtt tgatgagcta caaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttcacttgat tgtgcatcta gtcagagaaa tcaaatgtcg tggtcctggt tatttgcggt 300  
 ggatgtaccc ggttgagtga tacatgaaga tcttataagg gtatacaaat aatctatatc 360  
 gtccaaaagc atctattggt gagaggtaaa ttgcatatga agccattgaa ttttgtctag 420  
 aatacattga aaaggctaaa actattggcc ttctgaatc tcaacatgat gacaaaagtg 480  
 gtgggtta 487

<210> 10999

<211> 615  
<212> DNA  
<213> Glycine max

<400> 10999

agcttatcaa tctgaattca ttggcatgga tgggcttctt gaccttagga attaagacta 60  
tgaaggtttt atttatgtaa gttaggtcct ttcctttgtt caaaatttgt agtgctagac 120  
ttgtgatatc aacaccaata atactccaaa atttgtggta aaaaagagtg gaggtgtcat 180  
ttggactaag ggattttgtg gggagcattt gagaaatggg gtcttgaatt ttagtcccta 240  
tgaattcagc attcaagata ttgaggagat tcggtgaaat tgtgttttga aataagcttg 300  
taactttctc tgttaacaaa gtcttggagg gggtaaaca gtcagaaaat taattcataa 360  
gaacttcacc tatattctca aaggcatata caaatctccc atcatccttt ttaagcctct 420  
gaatagtatt tactttttgc ctctaagata ccttttgggt gaaaaaagt gtgttttgggt 480  
catcgggttt tagccaattt gcacaagaac attggtctca cttattttcg tcctgcaaca 540  
agacatcatc aagagtattt ttaccaacta ttattttacc ttccacttg ttagtctaca 600  
taggaagttg gaagc 615

<210> 11000  
<211> 601  
<212> DNA  
<213> Glycine max

<400> 11000

agctttacac aacaaatatt taattgttgt gtgatcagtg taaattacta ttttttatcc 60  
taccagataa gacccaaatt tctcaagtgc aaacacaatt gccagtaatt ctttctcagt 120  
tgtggcatag ttaatctgag catcattcaa aactttgcta gcataataga tggatggaa 180  
tattctacct ttccactgcc caagtacagc acctactgca taatcacttg catcacacat 240  
caattcaaac tcttgccccc agtctggtga cgtaatcaca ggagcagaaa ccattttagc 300  
tttgagagtg ttaaaggctt ctagacactc ttcattaaat acaaacacag cttccttgggt 360  
caatagattg ctttaagggt tagcaatctt ggagaagtct ttaatgaatc tccgataaaa 420  
ccctgcatgt cccaaaaagc tgcataatgcc tttogcattg actgggggtg ggagtttatc 480  
aataacatct aatttagctt tatccacctt tattcctttt ttagaaatct tgagtcctag 540

cacaatgcct tcttgaacca taaagtgaca ttttttcata ctttagcacc atattggatt 600  
c 601

<210> 11001  
<211> 553  
<212> DNA  
<213> Glycine max

<400> 11001

agcttcccg c tgatggatt tatagtttaa tgataccatt gcttcctttg gatttaaggg 60  
aatcattggt gatcaatgta tatattttaa ggtcagtga aataaggtaa tattttttat 120  
tctgtatgct gatgatatct tgcttgcaac taattatctt ggtattttcg tgagattaag 180  
aagtttctct ttagtaattt tgaaatgaag gatatgggtg aggcaagcta tgtgatagga 240  
atataaatat tcagagacaa atcacaagga ctattaggct tgttctagaa aacatatatc 300  
aataaagtac tagagagttt caagatgaaa aattgctcag catcacccat tccaattcaa 360  
aaagagacac atttagtcct gcataatgcc ataagaatga tttggaacga aaacaaatag 420  
aagcaatttt gtatgcatct gttgatgaaa gtattatgta tgcttagatt tgtacttgac 480  
tagtcataag ctttgcaact tggatgttaa gaagatatca aagtaatctg ggaattgaaa 540  
cattggaaaa act 553

<210> 11002  
<211> 610  
<212> DNA  
<213> Glycine max

<400> 11002

agcttttctt tgagaaaagc aaaggcttgc tcttgttttt caccacaggt aaacgccata 60  
ttcttcttca ccagctcatt gagaggagat gcaattgtag agaaattagg aacgaacctt 120  
ctatagaagc ttgctaacc atggaagctc ctaacatctc ccacactttt tggggtggac 180  
cattcttgga tggccttgat tttctcaggg tccacttgga ccccatctt accaactaca 240  
aaccctaaga aaactatatt atctacacaa aaggtaactt ctctatattt gcatagaagg 300  
tgtttttctt aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc 360  
tattgtacac taaattatca tcaatataag caactacaaa tctacctatg aaatccctta 420

agatatgatg cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca 480  
ctagccattc atacaaacca aacttgggtct tgaaagcggg ttttcaactca tcaccctttt 540  
tcaccttgaa ttggtgataa ccacttttaa gatcaatttt tgaaaagata ttggcaccat 600  
gccactcatc 610

<210> 11003  
<211> 488  
<212> DNA  
<213> Glycine max

<400> 11003

tataataaat cgatacgcta gaaattaatt ttcgaaaact ctcgagaaat tcaaattggcc 60  
atatcttttc acaggatgtc tgattcgggc gcataatatg tcgagaggct cgaaattgaa 120  
cacttgaagc tcttgagaaa ttccaatggt cataagtttt cacacggatg tccgattccg 180  
gcttataata tatcgatacg agcgaaatta aacatcggaa actctcgaca aattcaaattg 240  
gccataacgt ttcacacgga tgtccgattc gggcgcataa tatgtcgaga ggctcgtaat 300  
tgaacaacgg aagctctaaa gaaattcaaa tggtcataaa ttttcacacg gatgttcgat 360  
tagggcgtat cacatataga gacgctcgaa aatgaaatat tgaagctttt gagaaattaa 420  
atgggcataa cttttcacac cgaagtccga ttcagggtta taatatattg atacgctcca 480  
aattaaac 488

<210> 11004  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 11004

aacttaaagt agctgcttgt catcagtcgt gactttttcg taaaaatgac atcgtagaca 60  
tcaaagagac attcctagaa cgcacgcggc aggtacatat agcttaaaac ctcagaatct 120  
gaactcaatg aatggcggtc atattataga tgaatgctgc gccattgact cttgctctct 180  
gaaccataga ctaaacttca ttctcttcg tccctggaag agacaagcga aacagggtatg 240  
catcttcaca ctctccaatg tcacaagcc ccatgggttg cccaatcccc cctgtagcca 300  
cagttccagt caagccaaaa ccattcttgg tagcagccac aatatca 347



<210> 11005  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11005

tgtgatgtn tccggcgatg ctgaatttgt tgatggtgct cataatattc ttaacaaaga 60  
 cagtgaata ggccgtggag gatttggagt tgtttattgc actgtcctta gagatgggtca 120  
 ttgtgttgca atcaagaagc ttacagtgtc cactttgacc aagtctcaag aagactttga 180  
 gagggaagtt aaaatgcttg ggaagatcaa gcatacaaat cttgtggcac ttgaagggtta 240  
 ttattggact ccataccttgc agctcctaata ttatgagtac ctagccagag ggagtttgca 300  
 aaagcttcta cacgatgatg atagcagcaa aaatttgctt tcttggagac aaaggttcaa 360  
 gatcattctt ggaatggca 379

<210> 11006  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 11006

tctaaacttt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
 tcttaagaag ggggggttga attaagatat cccaaattac ttccccaatt aaaaatttat 120  
 ttcactttct tttcaagttg tagattcctt taacaatgaa cttcttaaata attaattcaa 180  
 ataaaacaat ttgaatatga atgtaaagca ataataaaca aaggagatta agggaagaga 240  
 aagtgcaaac tcatatttat actgggttcgg ccacaccctt gtgcctacgt ccagtcccca 300  
 agcaaccgcg ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360  
 aggacaatca ttcctttgta tttagaattc attta 395

<210> 11007  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 11007

tcaacttgtg ctacatgcaa cattccgcat gaaagatctt ggccaactca catgtttttt 60

aggattggag gtacatcatc gatcaaatga catatTTTTa aaccagcata agtacattca 120  
agatttgata actttggctg gtttgaagg cactacttca gttgatactc ctatggaagt 180  
aaacgtcaaa tacaggaaag atgaagggga tcttttggct gatccaactc tctatcggtg 240  
tttggtgga 250

<210> 11008  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 11008

tcaacattca atttcgagcg tctcgatata ttacgggact caatcaaaca tccgtgaaaa 60  
aagttattgt cgtttgaata tgctcagagg ttcaacattc aatttcgagc gtcttgatat 120  
attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaaa tggctcagag 180  
gttcaacatt caatttcgag cgtctcgta tattacggga ctcaatcaga catccgagta 240  
aaaagttttt gtcgtttgaa ttggc 265

<210> 11009  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11009

actcggatgt ctgattgatg tcnngtatca tatcgagacg ctcgaaatng aatgttgaac 60  
ctctgagcca attcaaacga caataactnt ntacaggat gtctgatcga gtcccgtaac 120  
atattgagac gctcgaaatt gaatgtngaa cctctgagcc aattcaaattg acaataactt 180  
tctactcgga tgtctgattg agtcccgtaa catatcgaga cgctcgatat tgaatgttga 240  
agctctgagc caatacagac gaaccataac ttttactcgg atgtctgatt gagtcccgta 300  
acatatcnag acgctcgaaa gtgaatgttg aagctctgag ccaataactaa cgaccataac 360  
tntttactcg gatgtctgat tgagtcctgc aacatatcga gacgc 405

<210> 11010  
<211> 264  
<212> DNA

<213> Glycine max

<400> 11010

tctgagttaa aagttattgc agtttgcatt tgctacaagc ttccgctttc aactacgagc 60  
gtctcgatat attactggac tcaatcgatc atcagagcaa aaagttattg tcgttagaat 120  
ttgttcagtg cttccgtttt caatttggag cgtctcgata tattacggga ctcaatcgga 180  
catccgagta aaaagttatt gttgtagat tttgctcata gcttctattt gaatttgcta 240  
cgagcttccg ttttcaattt ggag 264

<210> 11011

<211> 394

<212> DNA

<213> Glycine max

<400> 11011

tctcgatata ttatg'gcct gaatcagact tccgttacat aagttatgac catatgaatt 60  
tctcgatata ttatg'gcct taatcggact ttcgtgtgac aagttatgac catttgaatt 120  
tctcgatagc attcgttggt caatttcgag cgtctcgata tattatg'gcg ctgaatcgga 180  
cttccgtgtg acacgggatg accatctgga ttgttcaaga gcatccgttg ttagatttcg 240  
agtatctcga tatattatgc gctgaatcg gacatccgtg tgacaagtta tggccatatg 300  
aatttctcga gagcattcgt tgctcatatt cgaacgtctc gatatagtct gcgcgttaat 360  
cgaactttcg tgtgacaagt tatgaccatc tgaa 394

<210> 11012

<211> 226

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11012

ctctagaagc ttggttgatc aatttcgagc gtgtcgatat gttatgcacc tgaatcggac 60  
ttccgtgtga caagttatga ccatntgaat ntctcgagag cattcgttgt tcaatttcga 120  
gcatctngat ataatatgcg tccgaatcgg acttccgagt gacaagttat gaccatctga 180  
gattctcgag agctctcggg tctcaattta gagcatctcg atacgt 226

<210> 11013  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11013

ntgtgctcaa tttccactgg aagatgacat gcctttccaa agacaaccg ataaggagac 60  
 attcctatgg gtgctttgta ggagtcgga tgcaccaga gagcatcatc aagcctggta 120  
 ctccaatctt tctgcttgg ctgcacaatc ttctctaaat ttcgcttgat ttctcggtta 180  
 gaaatttctg cctgtccatt ggtctagggg tggatgggtg tggataccct gtgtaccacc 240  
 ccgtactttt taagcagggc atgcattgtc ctgttgcaaa aatgggttcc ttgatcacta 300  
 acaattgctt taggtactcc aaacctgcaa aacaa 335

<210> 11014  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11014

gcttaccgat gtgcatgtgc tgctgatcga actggacatg cnttattggt cactctctat 60  
 ggccaagcta tgagacataa taccagtnn tgtgtggaat atatngcatt ggatcttgta 120  
 atgaatagtg atggtaagtt gttgcagaca acatcttgac tacacttata ttgcaatcaa 180  
 ttaaactaat taagtcttag cattcattgg ccttgatgag taaatatccc atgtacttca 240  
 cattacttga tacaaattgt aattgtgta tctcttccaa tggtaatggc tctattaaac 300  
 aagcattcaa tggtagaaaa anatgtctgt cttgggtgat gtgcaagta cctatttctt 360  
 ctatattgat atgantgcac ttcgagagt gattgcttga tatgacgatg gacactacat 420  
 cgtaagctg ttcacaattt ggccagggtg caatttct 458

<210> 11015  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11015

tagtcctata ccattgttca ctgaactcctt cagaactgat ggggaacagg tccttaagtt 60  
 tcccacacct aaagtaattc aaggtagtac attaaaagca tattcctgat cctagcaata 120  
 tttatattca taaataaaca tggtaagctg atacatcttt tgaaatgtnt tttatttgga 180  
 acagtgaatc tgtctggatg gatgactgat gaagagtttg caagagagat gattgctgga 240  
 gtaaattccac acattattaa gaaacttgag gtaaatttac tattgaactg ttaagtacat 300  
 aaaactataa acnatttatc cacttggttaa atttgcagtt gataacctta actcattgca 360  
 aattatattt att 373

<210> 11016  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11016

cgagacacnc gacattgact aaaggaagtt gtcgagatat tcacatgggc acaacttttc 60  
 actcggatct ccgattcacg cgcataatat atcgacacgc tcgacattga acaacggaag 120  
 ctctcaagac atctatatgg tgataacatt gtactcggat gtncaattcc ggcatataat 180  
 atttctagac gctcgaatat gaataactga agctctcggg acattcaaatt ggtcataaca 240  
 ttctcgacag atgtctgatt catgcgcata atatatcgag acgctcgata ttatcatcgg 300  
 aagctcact 309

<210> 11017  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <400> 11017

tatcaaaatg cgcttaggcc cactccaatt ctttttagccc agacttttcc agaatcctta 60  
 aagagggggac ctataacttca aacggtagta tgacttccat tccatacacc aaagaaaacg 120  
 gatttgcccc agttgatgtg cgcactaagg ttcggttaacc atgcaacgcg aaaggagca 180  
 tctcgtgcca atctttatat gacaccgtca tcatctgaat gatcttcttg atgttcttat 240  
 tggccgtctc aaccgccccca ttcatctagg gcctgtaagg catggaattc tgggtgttga 300  
 tcttgaaatc cttacacatt tccatcatca tcttttatcc aggttggtgg catcgtccgt 360

gataatcttc atgggcaacc catactgaca gattatctcc ttcttgatga atctaaccac 420

cacgctc 427

<210> 11018

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11018

ntctcatttc cagcctcttt tcctgtccca tattttggtg ttgatgtaca taaagtcctt 60

ccatcctaaa tggtaggaga acataaatTT tagagttgaa gatgcattgt tatatatgac 120

cttttacaat gatatggaat tagaaaatnt attgaacaaa aattcattca caaaaagttt 180

cacaagatta atacgtagct aataacaaat ggtttataag aatggcgaaa aatattgttc 240

atcacctgtc catataaagt tgcatttaca acacctgaat gcatatgagc agtgccataa 300

attagataac ctctcttttc cattgggatg ttttcttttt ggacatgagg agaataacca 360

ccaccaccag ttgctggaat ggtatactct 390

<210> 11019

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11019

gtcacacggg atatacataa ccaannaatg actacaaatt ataaaggagg tctattttgt 60

tgtcangaca acttacaatg caagcaaata gagggttntc aaggttcaag gagaatggtt 120

tccttaagat acanaattag ttgggttgat tggaacatat accaaatacc agttaaggtt 180

tacatacttg attccaccga caaagtgagg tcaaattggtt ccaaataact tcatgattgt 240

ctggtagata atgtttccaa gacagtactt tatgataaaa caatatactc ttcaatctta 300

tagagtgagt gaacaanagt aaatctaatt 330

<210> 11020

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 11020

tcttctcttt cacttcatgt atgctatang atacgaacaa tcgtatgaag atgggtatag 60  
ttgaagagag acatggcctc tatcacctca taccagacca nacagacana agccattgct 120  
cgaccattat tcaccctana tgcaatatta tcccaataga atctttggca ttttgaatgg 180  
gccatctatc aacagaaaga ctgcaatgta tgaaacctta ttatccatt atgagaaatg 240  
ataanaactn tgtgtgtaat acatgtcact atgcgaaaca caagaagctt nctttttctc 300  
gagcatttca catgcatcac atacttttga ttacttcaca tggatatatg gggctccttg 360  
tcanaaccat ctatgcacgg gcacaagtat ttcttaact 399

<210> 11021  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11021

tcatgcttat ctatgtatgg caaaacttca ttactgttgt tcaagacata caagtgaagct 60  
tgtaacaaat cttctacact tggagtgatc acctgcagtc ctcttgaacc cttaccaccc 120  
actctgtcat catgctgaca ctgaggaagc ccaacagctt tagccttctc taagtattct 180  
aaacaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc ttccggacga 240  
tatagatttt ttgtataccc ttttaagatc ttcatgtatc gctcaaccgg gcacatccac 300  
cgtagataaa caggaccaca acatttgatt tctctgacca gatgcacaat caagtgaatc 360  
atgatgtcaa agaaagcagg gggaaaatac atctncaact ggcacagtat aattg 415

<210> 11022  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 11022

tgcccttcaat gccactctca ccctctccaa tacaaggcat tggaactttg cttcaacggt 60  
tccctcaacc gtttgccagc atccacacca aaccctcttc tgataagtcc tccatataat 120  
tccaccacta ctactccctc actttccaat gccttggttg cagccttcaa acgtgctcag 180

gctcaccaac gccgtggatc cattgatcag aaccagcagc aaccattttt gacttttaaag 240  
 attaagggtgg agcagctcat agtctctatc cttgatgacc ctagtattag taggggtcatg 300  
 cgagaagctg gtttctctag ctcccttggt aaaacaaggg ttgaacaagc tgtttcaatg 360  
 ga 362

<210> 11023  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11023

gctgcccag tttcatgatc ttgtagggtga agatcctcat aagcatctta aggagttcca 60  
 tattctntgt tctatcatga agccccctga tgtccaagaa gatcatatct ctctgaaggc 120  
 ttttcctcat tctctggagg gagtggcana agattggcta tactaccttg cgccccggtc 180  
 cattttcagc tgggatgagc ttaagagggg ttcttggaaa attcttcctt catctacgac 240  
 cactccatta ganaaacatt naggcacat acaacttagt nagagagctt gatgagtact 300  
 ggaaagatca agacatgtgg cgagctgcct cacaccgatt tngcaaactc ctctcatatt 360  
 ctatgaggac tggcactgga aggagatgat tgtg 394

<210> 11024  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11024

gctctcatta tatgcgcctg aatcgactcc gttgaaagtt attccatttt tatctctcga 60  
 gagncttggg tcttcaatnt cgagcgtctc gatataataa gcacctgaat cggactgccg 120  
 tgtgacnatg ttatgaccat tgaatntctc gagagcttcc gatgttcaat ttccagcttc 180  
 tcgatatatt atgcgcctga atcagacttc cgtgtgaaaa gttatgtcca ttggaatttc 240  
 tcgagagctg tcgatgttcg atntcgagca tctcgatata tcatgcgcct gaatcggaca 300  
 ttcgtgtgac aagttatgac acattgaatt ct 332



<210> 11025  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11025  
  
 gtgacctatc aaactcagct ttcagcaaat tcaaacgaca ataacttttt actcggatgt 60  
 ctgattaagt cccgtaatac atcgagacgc tcgaaattga atgttgaagc tctcagcaaa 120  
 ttcaaacgac aataactttt ggctcggatg tctgattgag tcccgtaatc tattgagacg 180  
 ctcaaaattg aatttctgaac ctctgagctt attcaaacga caataacttt ttactcggat 240  
 gtctgaatga gtcccgtaat acatcgagaa gctcgaaatt gaatgttgaa gctcttaggc 300  
 tattctaacg acaataactt tttt 324

<210> 11026  
 <211> 285  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11026  
  
 tcgtctcgat atattacgag tctcaatctt acatctgang ataaaagtta ttgttgnnt 60  
 gaattgctga gagcttcaac attcaatntc gagcgtctcg atgtattacg ggagttagtc 120  
 agacatccga gttaaaagtt attattgttt gaatntgctg agagcttcaa cattcaattt 180  
 cgagagtctc gatattgtac gggactcaat cagacatccg agtaaaaagt tattggtcgt 240  
 tgaattagct ctgagggttca gaatacaatt tcgagcgtct caata 285

<210> 11027  
 <211> 229  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11027  
  
 gtgagccaat tctaacgaca ataacttttt actcggatgt ccgattgagt ctagtaatat 60  
 atcgacacgc tcgaaattga atgttgaagc tctaagccta ttcaaacaac aataacgttt 120  
 tactcggatg tccgattcag tgacgtaata tatcgggatg ctcgaaattg aatgttgaac 180  
 ctctgagcca actcaaacga caataatgtt ttactcggat gtctgattg 229

<210> 11028  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11028

ggctatatag aaacaagtgc nttgattntc atgtggtggt tccaatttct gcaactctat 60  
 tacagatggt ctcaaaacaa tatgtggttg tcggtacgag tggcatgata taattttaag 120  
 cttgagataa atgctttaa aatgtgacca tttgctcaaa aaaaattctg cacacatcat 180  
 ttacttatat gtaatgcgtt atacataaaa catgggattg tgacacagga tgactgattc 240  
 tgcattttat ataatttatt cataaataca taggaaagta acacaaatag gctgagtact 300  
 tttaaaatca caacttgtat ttaaacaac tctattgaaa atatataaaa tgccactata 360  
 tcaaggctta taaagtattg tagattttta gttaaatca gtattacagt accatatgta 420  
 tgat 424

<210> 11029  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11029

ntagttcatt gcttcaagta gtgctaatat gcttctagag gaaaacacgt tgccaaaaag 60  
 ttactattag gccagaaga tattgtgccc gatgggtatg gagtatcaaa agattcatgc 120  
 tttccctaata gattgcatac ttacagaca taagtttgaa ggaatgcaca aatgccctag 180  
 gtgtggggta tcacgataca aagtgaagga tgatgacgag tgtagtagta ctgatgaaaa 240  
 ctcaaataag gtccccccag caaagggtgt gtggcat 277

<210> 11030  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11030

ntaaatatct gatgacggga atcctcatct gggagtggta tataaatcaa ttggtgcaga 60

cgacctgttc gcagaagcgc gggatctata atgtctggtc gattagtggc cccaatgatg 120  
aacacagctt tctttgctga catcccatgc atctctgtaa gcaattgatt cacaaccctg 180  
tcacagcgc caccagcatt tcttacctg ctgcctctct gcaagatgag gcacacatgt 240  
tttctacaca taacaagaca ttactgtagt cttaagtact aagtcacact aattagctat 300  
gttttaaatt tttttaaata catacgaatg cctgagaaac ccatacttct atctgat 357

<210> 11031  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11031

atctanngtg gaggaatcat ccannattga gatgggcaag tcctctacaa caacaatagc 60  
ctgtccctta tntccaaaat gttgctggtc caagcaagcc atatgttcct cctccaatgc 120  
atcagtagta gtaacaacaa caacaaagac aacaagcaac tgaggcccct tcttaacctt 180  
ccttagagga gttagtggag caaatgacca tctagaatat gcaatttcag caagaaacaa 240  
gagcctccat tcanggtctg acanatcaga tgggtcagat ggctactcag ttgaaccaag 300  
cttagttcca aaattctgac aaattgcctt cacagactgt gcagaaatct gaaaatgtga 360  
gtgccatcac cttg 374

<210> 11032  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 11032

gagcgtctag atatattacg ggacacaatc agacatctct agtaaaaagt tattgccatt 60  
taaatttggg gagagcctct gtattcaatt tcgagcgtca agaattatta aatgactcaa 120  
tcggacatcc gagttaaag ttattgtcgt ttgaatttgc ttagagttac tattctcaat 180  
ttcgtgcgtc tcgatatact acaggactca atcggacttt ccagtaagaa gttattgtca 240  
tttgaatttg ttgagagctt ctatattcaa tttcgagcgt cttgaattat tatgggagta 300  
aattctacat tcgaagtaac aattattatt cgttcaattt gctga 345

<210> 11033  
 <211> 270  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11033  
  
 ttgagacgct cannattgaa tgcaggagct cttaccanatt tcanatgccca ataactntnt 60  
 actcggatgt ccgattgagt cccgtaatat atctagatgc tcanaattga naacagaagc 120  
 tctgagcaaa ttcaaacgac aatagctntt gactcggata tccgattgag tcatttaata 180  
 attcgagacg cctcaaattg aatacagaag ctctaagcaa attcaaattga caataacttt 240  
 ngactcgaat gtcncgattg agtcatttat 270

<210> 11034  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11034  
  
 tgtttcaaac catagatgga tttatttagt ttgcaaacca tagactttga gtcacctgat 60  
 acaaagtttt ctagtgtcat catataaatt gtttcttcaa tgtcaccatt tagaaacaca 120  
 gtcttaacat tcatctgatg tagctctaaa tcataatgag ctaccaatgc cattattggt 180  
 caaaaagaat cctttgaaga tattggaaaa aagggttctt tatagtcaat gccttccttt 240  
 tgggtaaata ctttagcgac tagacgagca acattgccct ttgaatccct tttggtttta 300  
 aatatccatt tgcaaccaat aggtttcaca cttttaggca attcgacgag atctcaaacy 360  
 tcattgtctt gcatagattt catctcatcc ttcattggcat tcatccacat ttgagagt 418

<210> 11035  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11035  
  
 ctcagcttgc cttgctcctt gattattgag ggactcatgg tcactatgaa tgacaaattc 60  
 cttgggataa aggtagtgtt gccatgtttt caaagcccg actaaggcat acaactcctt 120



<400> 11038

ntatcaaattg gatgttaaaa gtgcttttgt aaatggctta attcaagaag tatatgttga 60  
acaacctcca ggttttgaaa tatcagataa gccaaatcat gtttatagat tgaaaaaagc 120  
tttacatggt ttgaaacaag cccctaggg catgggatca acgtctaaga aaatttcttt 180  
tagagaaaga tttttctaga ggaaaagtgg ataccacact attcataaag agaaagtatg 240  
atgatattct gttggtttta atatgtgttg atgatataat atttggatcc actaatgatt 300  
cattgtgcaa ggagttctct cttgatatgc aaagcgaatt tgagatgtca atggtgggag 360  
aactaaatta ctttctatgg ttacaaatca accaaactaa a 401

<210> 11039

<211> 261

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11039

gaacaccgag actatttagt ctcacaaatg caagaactac gtatgtctga gttcctcatc 60  
acaaattgag gatacgtagg agcaaaagcc ncgcttttgt cgaccacctc gccttttgct 120  
atcgtgacct gtgagaacgg tggcacgcgg aaacacccga tggttattcg cgcacactat 180  
atgctatccc atgacctatg agtccggtgg cacgcggaga caccgatgg gtatccgcgc 240  
acactctatg ctatccaatg a 261

<210> 11040

<211> 299

<212> DNA

<213> Glycine max

<400> 11040

atggcactca catttttcgg attctgcaca gtttgtgaag gaaatttgtc agaattttgg 60  
gactgagctt ggttcaactg agtagccatc tgcccatct gatttgtcag actctgaatg 120  
gaggcttttg tctcttggct gaaatgcata ttctggatgg tcatttgcct cactaactct 180  
tctaaggaag gttgaggagg agcctcagtt tcttgttgtc ttttgtgtga ttgctgctgc 240  
tgtattggag gaggaacata tggcttgctt ggaccagcaa cattctggaa aggagggac 299

<210> 11041  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11041

tcacctctaa tgagctggtg aagaagaatg tgtgcattta cctgggtgaa aaacaagagc 60  
 aagcctttgc tttgctcaaa gaatagctta ctaaggcacc tgttctagct cttcctgact 120  
 nttctaaaac tattgagcta gaatgtgatg cctctggagt gggagttgga gctgtattgt 180  
 tacaaggtgg gcaccctatt gcttatctta gtgaaaaact tcatagtgcc accctcaact 240  
 accccaccta tgataaagag ctntatgcct taataagagc cctncaaact tgggaacatt 300  
 accattgttc caggagattg tcattcatag tgatcatcaa tcac 344

<210> 11042  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11042

acagagaaac ttttgaagat agttgaaaag ntttttcaac cactgagtag cacatgagat 60  
 tttctcanag cctttttacc aaagaagttt tactctttgg taatcgatta ccagattatt 120  
 gtaatcaatt accagtagca gaatggttnt caaaaagctt tcaactaaat ttacaacatt 180  
 tcaattgatt tcaaaatggt gtaatcgatt acaatgttgt ggtaatcgat taccagtgtg 240  
 cttgagcgtt gaaattcana ttcaaagtgt aagagtcaca tcctttcaca aaaaagattt 300  
 gtgtaatcga ttacactgat ttggtaatcg actaccaatg atagtttctg aacaaatcag 360  
 aagatgaaca cttacatagt ttgactctt caaatcggtt aagttttcta acgcataact 420  
 ttctatggtc tc 432

<210> 11043  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11043

atatatagag acgctcgaaa ttgaacaaca gatgctctct agagatgtaa atggtaaaaa 60  
 tttttcactc ggatgttaga ttcaggcaca taatatatcg agacgtttga aattgaacac 120  
 taaagctctg gtccaattca aacggccata acttttaaca tgggtgtatg attgacgccc 180  
 atgatgtatc gagatgatag aaattgaata acggatgctc tcatgatata cacatgggtca 240  
 caagttntca ctctgatgtc agattcagga acataatata tagagacact cgaaattgaa 300  
 cacggaagct ctggtccaaa tcatatggcc taaactattg acatgc 346

<210> 11044  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11044

tcttttagact gggctgttca tgcagtcctc ttagaccctt atctgccact atntcgtcat 60  
 gccaaggctc cagaacccca acaggttttg cctattagat gtactcggaa taaacctcaa 120  
 tagctncttc cgcaatgtac ctttcaacaa tatatacttc aagacagtgt agattctttg 180  
 tatacccttt taagatctcc atgtattgct caatcgggta catccaccac aaataaacgg 240  
 gaccgcaacg attaatttct ctaccagat gaacaattaa gtgaaccatg atgtcgaana 300  
 acgaaggaga aaaatacatc tccaattgac acaagataat agcaacctca tnttttacct 360  
 catctaactt aagaggatca atgactatgc tacatttgac 400

<210> 11045  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<400> 11045

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 aggtcatgtg tcttatagca aaaggggaga gctctctttc attgatagag ttcacttaca 120  
 acaacagttt tcaactctacc attggcatgg ctccctatga agctttgtat ggtagaaggt 180  
 gtaggacacc tctatgttgg ctaaagccct gagaagacct caccttatga cttgaagtgg 240  
 tacatcaaac caccgagaag gtcattgtga tcc 273



<210> 11046  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11046

cttaatcgtc accttattca actggcggga gtctacacac aacctcatgg tcctatcttt 60  
 cttctttact aacaacactg gtgctcccat gggagataca ctgggtctca caaactgctt 120  
 ctccaaaaac tcctctaact atntcttaag ctgggctaac tctataggag acatcctata 180  
 aggcgctatg gatataggtc cagcaccagg taccaggctt atggaaaact ctatctctct 240  
 cttgggtggt agaccaaata ttccttagg gaacacttca ngaaactctn ctgacatagg 300  
 gagatcacac atggaaacct ttgtctctat ttccaggnta gacaagatca tgtaca 356

<210> 11047  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11047

ataaatagtt ctcgagggtc cgattcaggc gcattatnta tcgagacgct cgtaattgaa 60  
 caacggaagc tctcatgaaa ttcattgggtc ataactttta actcggagggt ccgattcaag 120  
 cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcaagaa atttaaattg 180  
 tcaaaacttt taactctgag gtccgattca ggcgcataat atatcgagac actcgaaatt 240  
 gaacaacaga agctcttgag aaattcaaatt ggtcataact tttaactcgg aggtccgatt 300  
 caggcgcatt atatatcgag acgctcgaag atgaacaacg gaagctctcg agaaattcaa 360  
 ttggtcataa cttttaactc ag 382

<210> 11048  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11048

tggtagaata tgggtgttaa ctatcacctt atattgcatg agtggtttct ttgtgccaac 60

atctcttaaa gaccaactac gaagaataat gaatagcttt tggtaggggtt tgaaatatgc 120  
aaattcaaga gaataatttg gttgaattgt gataaaatgt ctatgaaaaa aagagtttgg 180  
aggaatggaa ttccgcaact tgcattggatt taatcttgca atgcttggga agctaggggtg 240  
gcaatttacc acttataatg atgctaccat gacaaaaatt ctcaaagcaa aatattgccc 300  
caatggcgat ttcttggatg cccaactngg gcatagtcca agctatgtat gacatagcat 360  
ccatgcttca caggtcctcg ttagaaaagg gtttcaatgg agattagatg atggtgataa 420  
aatcaacat 429

<210> 11049  
<211> 204  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11049

tatcttaaga aggggggggt tgaattaaga tattccaaac tttctccta attaaaaatc 60  
tatcttactn ttactttaag ttatgaattc ccttaatgac aatcttctta aatgttaatt 120  
cagatgaagc aaccttgata taaatatata gcaataatta ttaaggaga ttaggggaag 180  
agaaaatcaa actcagttta tact 204

<210> 11050  
<211> 220  
<212> DNA  
<213> Glycine max  
<400> 11050

gctgatgcaa caattgttag cccgggctat acgagacatc ttgccaaaca aagtcaaggt 60  
agcgataact cgctgtgct tttcttcca tgctatatgt agcaaagtca ttgattcagt 120  
caagtttgat gagttggaaa atgaggccac aattatactg tgccagttgg agatgtattt 180  
tccccctgct ttcttttaca tcttgaatca cttgattatg 220

<210> 11051  
<211> 338  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 11051

tggaatgaac aaggaagaaa gatgatctga ggcncactt cgaggagaat atgagtcaag 60  
aagaagctca ccaccatacg aagccatgga taaaagcttg aaggtaggag aatatgagtg 120  
gagagaaatg gagagaagaa gcacgaaatt ttgtgcctca caagaggtct aaactctgaa 180  
gtataattct caaatgatca aagttgaaaa aatacacaca catggcctct atttatagcc 240  
taagtgtcac acaaaattgg acggaaatth gaatttctat tcacatttca cttgaattag 300  
aaattgaatc tgcggagcca aaatntcact aattatga 338

<210> 11052

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11052

gtcacctgat gcatgcaagc atatacagat cttctagact tgggctgata acatgcagtc 60  
ctcttaaacc cttacctccc actttttcgt catgccaagg ctccagaacc ccaacagggt 120  
ttgcctatth gatgtactcg gaataaacct caatagcttc ttccgcaatg tacctttcaa 180  
caatagatac ttcaggacag tgtagattct ttgtataccc ttttaagatc tccatgtatt 240  
gctcaatcgg gtacatccac caciaataaa cgggaccgca acatttaatt tctctacca 300  
gatgaacaat taagtgaacc atgatgtcga anaacgaagg agaaaaatac atctccaatt 360  
gacacaagat aat 373

<210> 11053

<211> 335

<212> DNA

<213> Glycine max

<400> 11053

tagagaaaca tttggcgcca ccgagctcat ccaaaagctc gtcaatgggtg ggaattggaa 60  
agcgatcacg aacggtaatg gcattcgggg cacggtagtc gacaaaaaac cgccataacc 120  
catcactttt cttactaac aacaccggag aagagaaagg gtcatgctg ggttgatga 180  
ggcccttttg gagcatgagg tccacctgac cttctggaaa tgcaggtaac gatacgccg 240  
catgttgatc ggagttgatt gtggaagaag gtggatatga tgatcaatgt tgcgctccg 300

cggtgaagcac catggttggt gaaacaagtg cgtga

335

<210> 11054

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11054

agcttagact aagttcagcc taccatcctc agactgatgg tcaaactgaa cggaccattc 60

aatccctgga ggaccttntg aggtcatgtg tcttagagca aaaggggaga gctttctttc 120

attgatagag ttcacttaca acaacagttt tcaactctacc attggcatgg ctccctatga 180

agctntgtat ggtagaaggt gtaggacacc tctatgttgg ctaaagccct gagaagacct 240

caccttanga cttgaagtgg tacaacaaac caccgagaag gtcaagttga tccaagaaag 300

gatgaggact gctcagagta ngtagaaaag ttatcaggat aagaggagga aagacttgga 360

attcgagggt ggtgatcatg tattcttgag agtcactctg tggactgnng ttggtcgagc 420

attgaaatcc caaaaactaa cacct 445

<210> 11055

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11055

agctgcattc ctctcttccc ttanacttct nttatttatt gctattttatc tnttgctcta 60

aagaagtcta tattgaattg tcttatgagt aattcatgtt aaggggtgcat tgtaaatccg 120

aaaagagaga ctgaaagctt aattgaggaa tagtctttgt atcttaattc gacccttttt 180

tttcttaatg taactgaggt catttgtcca acatcctatt ttgacaact cgcttctcta 240

agaagacaaa cattccggca tgataaaatg aggccacatg aacgtctgta tatttactcg 300

anaacacaat caatcaaag ccctttttct ttatgaacct ctttttggtta ttgatctta 360

tgagattttt tac 373

<210> 11056

<211> 333

<212> DNA  
<213> Glycine max

<400> 11056

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tcttcttctt caccgaaaca tgtgaagggc ctaataacag aacaaaattc tctgcctcca 60
tgaacaacat atcttttcgca cttccttcgg tggcgattct tcagcaacat ttctcagggg 120
agggcaataa cgggtgtttac accacggact tccagctgt tcctctgaga gcctttaact 180
acacggggac tccaccgaag aacaccattg tgaaaagagg aaccaaagtg gtggtgatac 240
cctttaacac gaggatgcag ttggtgtcgc aggacactag cattttaagt gcagagagtc 300
atccgttaca tcttcatggg gggcaaggt ttt 333
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<210> 11057  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 11057

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tatgttgcaa acatctacaa tagacctcct ctacctcagc agcaaaatca gccacaacag 60
aacaattatg acctctccag caacaggtag aatccccggg ggaggaatca tccaacctt 120
agatgggtcaa atccttcaca acagcagcaa caacaacaac aaccttattt tcaaaatgtt 180
gctggcccaa gcagaccata cgttcctcca ccaatccagc aacaacaaca acaacaacaa 240
ccccagaaac aacaacagtg tgaggctcct ccacaacctt cccttgaaga acttgtgagg 300
caaatgacta tgcaaaacat gcagtttcaa aaagatacca ta 342
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<210> 11058  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11058

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gtcacctgag gcatgccaag ctttctttgt gggttgatgg gttctgtcgc gtataatggc 60
atgatcactg gctaacatat tctcaattag ctacgttgct tcttcggng tcttcagctn 120
ntattttccc cttgaagaag aatctagcag ttgcttggtt tgtggtctca gcccaactat 180
gaacatatcc aattgaattg gtcgggaaaa ctcatgggta ggagttcttc tcaatanacc 240
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tctgaacctc tccaatgctn tactcagaga ttcattangg aactgatgaa atgaagagat 300  
 tgtagctntc ctttctgcag tcttagactc tgggaagtat ttcttttagaa acttttcaac 360  
 aacttcttcc caggttttta gaatgttacc cttaaattg 398

<210> 11059  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 11059

tgtaatcgac tacacatata cttttatcga ttacccaaac acattttcag aaaatattct 60  
 caacagtcac atctttctat gggggacttg aatggctatc aaaggcctat atatatgtga 120  
 cttgagacac gaatttgcca agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagattgct tcttctcttc 300  
 ttcttcattc tgaaaaggga tta 323

<210> 11060  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 11060

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 tgagaaagaa aatgtgttgc ttatggcaca agaatgctcg aaagaaaagg tgtatgatga 120  
 gtcaaatgtg gaaatgtggt ttcttgactc tgggtgcagt aaccatatgg ttggaagaaa 180  
 agattggtta ttcaattttg atgatagttt cagagatttt gtaaaattgg gtgataactc 240  
 caagatgcct gtcattggaa agggaaatct gaagctgtat attggtggat tagttcaggt 300  
 ggtaactgag gtttactacc t 321

<210> 11061  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11061

tcttagtttc agatgacgta gattggttta tggctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120  
 tggcttcaac aggagtcattg tctccaaggg ctccatcact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaat attggacaag aagttgttct gaaatctgat 240  
 ggtggggggca actgggacat agtttcttaa atctttgccca atactcatac aggctctctt 300  
 cactgagttg tctaatacct gagatatacct 330

<210> 11062

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11062

agcttctcga tatattatgc tcctgaatcg gacattcgtg tganaagtta tgaccattgg 60  
 aatntctcga gagctttcga tgttctatct cgagcgtctc gatataattat acacctgaat 120  
 cggacttccg tgtgacatgt tatgaccatt ttagtttctc gtgagcttct gttcttcaat 180  
 ttaaggcttc tcgatataatt atgtggctga atcggacttc cgttgtaaaag ttggaccatc 240  
 tgaatgtctg agagcttcgg tgtcattttg agcgtctcgt atattatgcc ctgatcggac 300  
 tcttgtgaca gtatgacatt gaa 323

<210> 11063

<211> 337

<212> DNA

<213> Glycine max

<400> 11063

tctatagaag gttcgttcct aatttctcta cagttgcac acctctcaat gacctagtga 60  
 agaagaatat ggcatttacc tggggtgaaa aacaagagca agcctttgct ttgctcaaag 120  
 aaaagcttac taaggcacct gttctagctt ttctgactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctgaagtg ggagttggag ctgtattggtt acaagggtggg caccctatctt 240  
 cttatttttag tgaaaaactt catagtgccca cccttaacta cccacctat gataaagagc 300  
 tttatgcctt aataagagcc ctccaaactt gggaact 337

<210> 11064  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11064  
  
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 tatgatcttt caagcaacag atacaatcca ggttggagaa atcatctaaa tctgagatgg 120  
 gcaagtcccc cacaacaaca acagcctgtc cctcctttcc agaatgctgc tagtccaagc 180  
 aagccatatg ttcctcctcc aatacagcag cagcaatagc agtagtcaca acaaagacaa 240  
 caagcaactg aggctcctcc tcaaccttcc ttataagagt tagtgaggca aatgaccatc 300  
 cagaatatgc aatttttagca agagacaaga gcct 334

<210> 11065  
 <211> 335  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11065  
  
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 ctttgcactt taaagatfff aactttccaa cctcaatagg tgaaatgaat acatgaaatg 120  
 atacaataca tttattgtca actatgcaat gctttacact gaataaaata tttgaatttt 180  
 ataaaagata tgcaaggtag agcgctgatt tttttgtaac tttaataggt atgtgtttat 240  
 tgtctataaa atatatttac actattttta tattgttatt ataacaataa atttattata 300  
 caaaatcaaa atgaatgtta caaataaaaa ataaa 335

<210> 11066  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11066  
  
 tatactatat cgagacgctc gaatttaaac atccgaatct cttgagaaat tcaaattggc 60  
 gtaacttttt acaccgatgt ccgattcggg cgcataatat gtcgagaagc tgcaaattaa 120  
 acaacgaaag ctcttgagaa attcaaattg tcataagttt tgacacggat gtactattta 180  
 ggcaaatac atatacgagac gctcaaaatt gaacaacggc agctcctgag aaattcaaatt 240



gctgataaca tttaacgacc cttaaaatgg ccgatgcagg cttatactat accgattctc 300  
tcgaaatagc acgacacaag atcc 324

<210> 11067  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11067

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ttattcaatt tcgtacgtct ctatatgtga tgctactgaa tcggacatct gtgtgaaaag 120  
ttatgaccat ttgaatttct cgagagcttc tgttggtcaa tttcgagcgt ctcgacatat 180  
tatgctcccg aatcgggcat ccgatgaaa aattaagacc cattgaattt ctcgagcgtc 240  
tccgatgttt aatatcgagc atctcgatat attataagcc tgaatcggac ctcagtgtga 300  
gaagttatga ccatttgaat ttctcgagag cttccgctgt tcaatttcga gcgtgtcgac 360  
atattatg 368

<210> 11068  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 11068

aaagacttgg gttggggctg ggaagggcat taatctaatt ttcttgtatt gcaagctttg 60  
ttgtagattg agggataag acaaaagctt gaacctatct tctgagaaaa gctaattgtac 120  
cctttttgca aggatgtgca aaaattgctg taggttaatg ttatagtgtc attgattgaa 180  
ctaactgact tttttttgtt attgggattg caggtttggg gt 222

<210> 11069  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 11069

tatcttgta ttgcataata ctttcttctt gcttatcagc cttatcttga gttcttttgg 60

atccctagct tttacctttt tttcaaacc ccaacaagaa agaactacaa cttaggaacc 120  
aacatgtgtc atcattcatc tagtgtaaat ggcgagggtg ctagtcataa ggacccttta 180  
tcttgaatct tagatgagtt gagtccctc aagttatgga aagaaaaaat ataaagaaaa 240  
aaaaggaaaa gagagggtaa aaacaaatca agatgagagg gaacaaataa gggaagaaga 300  
aagaaggaaa atactaaaag agttaagaaa agaa 334

<210> 11070  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 11070

gctcgcagta gtctatacac attctgatgc aatcctacca cccaagggtc ttggatagaa 60  
tactccaaga agattgcgcc agagaatgcc ctatggttct catgagcctt acggtagatt 120  
gtgggccccat gggctaagta tgagccact tatctttgta catattatat gaaggttgta 180  
ttatttgtgg gccttatatt gagcgtcca taatgtatgc agggtagcct ataaatgtaa 240  
gatttctcag cctcgtatt ttacgacatc tagactagta tttgtatgaa ggtgagttgt 300  
gtaattccac atgcattaca tgaatatttg atgtgtgaga tgagaaataa acttaattga 360  
att 363

<210> 11071  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11071

tgtatcttat cattagatac gaatgaatga acttgattag taatctctat ccagctgcaa 60  
cctgggactc ttgcatcaca cttgtttccc atcattctac gaactctttc cacatcactc 120  
caatgtctat gggaagcata aatgttagac atgactgcat agtttacatt cttctctggc 180  
tctatgggtga agagctnctc tgcgccccat ttagccagtc ctatatttgc atggagattg 240  
caagatgcaa caaatgctcc taatgtatgt gattcagctt ccattggcat tgacctcaag 300  
aattcaaaag cctcatttat aagaccgtat cgtccaagaa agtcaacaag gcaggatatag 360  
tgacctgaat catgaacaat cttatacaca ctggtcatta agttaagta gtgaagtctc 420

ttagtcacaa tgccacaatg agaacaggca gagagaaca

459

<210> 11072

<211> 325

<212> DNA

<213> Glycine max

<400> 11072

tcagaattca atttcgagcg tttttatgta tttcgagact caatcagaca tccgagtaaa 60

aagttatctg tcccttgaat ctgcttagag cttcaacatt caatttcgag cgtctcgatg 120

tattacggga cttaatcaga catccgagta aaaagttatt gtcgtttgaa tttgctgaga 180

gcttcaacat tcaatttcga ggcctcgat gtattacggg actcaatcag acatccgaga 240

aaatagttat tgtcgcttga atttgctctg aacttcacaa ttttatttcc atcatctcga 300

tattttacgg gactcaatca tacat 325

<210> 11073

<211> 317

<212> DNA

<213> Glycine max

<400> 11073

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attattatct gttttgggcc ccttatctaa gaaatttttt aaacaatatg cagttcactt 120

tctgagtttg gtgctcttgg aattgaattg ggttactcaa tggaaaatcc caattcattg 180

ataatttggg aggctcagtt aggtgatttt gctaattggtg ctcatgtcat attagacaat 240

ttcttggtct ctggggaggc taaatggctg cgtcagactg gtcttgatgt gctactttct 300

catggttatg acggcca 317

<210> 11074

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11074

agcttctctt gcantgattc cncaatatca tgagcctctn gcaagggcac atccgatggc 60

atgacaatat caacctcaac anagtagtga gatccatatg tgtatgcccg aaccgtatca 120  
atgtgcctta cagccttatg gtggttccag cataggtatg taagtntctg aagatactct 180  
ggtgctgctg atcttccac cagggagtta acatttttca acactgtcat tgaccatgtg 240  
cgaatggtgt acaaagccag ctgctgtaga tgaattacac ataagctaaa caagttaa 300  
ttatacaagt gaccacgtat aaaatga 327

<210> 11075  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11075

gccccagctc ttactccttg attatgcgct aaacttaact caacccttgt ccaagcttgt 60  
tttgctncgg ccaccgctat cttcatctct taaaccttat tatatcgatg ataactatgt 120  
gggacttgta ccacgttctg accgcggtgg tgccgctcta cgtggcgatg atcctggcct 180  
acgggtccgt gaagaggcgg aagaacttca cccctgacca atgcttcggc atacaccgct 240  
gtgtggcact attangaaat acactcctat ccttgcaact catcttcacc aacatacctt 300  
atgccatgaa 310

<210> 11076  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11076

tgcttaacca ccttntcccg gtgaacgatc cttcgacttc tggcgaggca cctccccaag 60  
ctgaggaggg atgtgatgct tcaacttcaa ccagcacaaa gagtagtgat gatctgctga 120  
tgcctaagga gttagcagca gccaaccatc acattgagag cctttatatg aagagtacca 180  
tttcagcttt gcatgttntg cagganattc gaaaggaag ctcaacagtt agcatgttnt 240  
cattgccacc attgcagata agtggccttg aagaaacatg gaacaaaatc cctattctgg 300  
aaciaacagc caagtaatgt gcttgataga ttgnggattg aaaactagct agtnttagtg 360  
gcttgggagt tcaoctttat ttattttttt tacttttcaa atct 404

<210> 11077  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11077

atcttaagtc acctgcggca tgcagctagg aggatgaagt tgagctgaat gctatcttgg 60  
 tgaaattgtg caaaaagtag aagtcatgaa gctagtccaa tttacaatgc agtgaataac 120  
 cctacagtta actatagatt ntgtagtact tccttgaaaa tcacattggg tgttttattt 180  
 agtggttntc cttctttatc atgaataaga aatttcaatc cagctttgct ctgaactctt 240  
 gataatgcca cataaagttg accatgacta anaactgggt gaggaagata taatccaaca 300  
 cattgaagag attagccttg agatntattg attgtcatgg catatgacac aataagtggg 360  
 aattgtcttc tagtcatctt gaaaggccaa ggagtntgag attgtgataa tgacattcgt 420

<210> 11078  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11078

agcttctgtc cctgagatac tgggtcccag aagacatcag ggagtgaaga ttgctgataa 60  
 ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120  
 tattgtgagt agcattntga aagacgcctc tgttcctgat gctgagaaag atgttccaac 180  
 atcctccacc ccgatgttg ctattcctga tgctgagaaa gatgttccaa catcttccac 240  
 tccaaatgct gaagtcctcc cttcaccag tgaagaggaa tcatcagagg aagaggatca 300  
 agccacagag gagaccctg caccacgggc a 331

<210> 11079  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11079

agcttgtgcc gaaacactct atggtggngt gctatgtatg ccatagtggc tntagttcag 60

tgatagaagc aatgggtcaat gactgccaac tgggtgctggt gcctttcaag ggtgaccacg 120  
 ttttcatggc caaagatttg gaggcagggg tagagggtgaa taggggtgat gaagatgggt 180  
 tctttcacia agaggatata ttggaggcat tgaaaactat cattgtgaag gatagcanag 240  
 aaccagggaa gcacacaaga gaaaaccaca tgatatgggt caaggttttg tcaaataagg 300  
 aaattcagaa canattcatc acagggtcttg ctgccagtt gaagt 345

<210> 11080  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 11080

tatccaaaca tatcctttat ttaagttatg tcttcttatt ctcgtaggac cgtgaatgga 60  
 ggcaagctat aactgctgct ggatctggat gcgttgacgc tttatcagtt gagagatatc 120  
 ttgtgagcaa tgatcttctt atagagttcc atcagggtatt tgacttctaa gaactcctat 180  
 tttgttttcg cttatcggtc tttaggtatc tgacactgta aattgagcgt acacatcaca 240  
 ttaccaatct actgcatctc tattatatgt cttaattctt gtacatttgc acagaatcag 300  
 atgcaacttt agcaagattt gcttg 325

<210> 11081  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11081

tgacctctat caacgataga aaactctccc aactcctcta ttgctctaag acacacgccc 60  
 tcaaaagggtg cttcagcgac tacatgggtcc attcaatttg gccatcagtc cgaggatgggt 120  
 atgctaaact tagtctaagc attggcccca acgctctggt cangtcccc caaaatctag 180  
 aggtaaacct aggatctcta tcagacacta tgctagatgg cacaccatgt aatctgacag 240  
 tctcactaat atacagggan ggcaactctt ccaaagaaaa tgtgatatta atgggaat 298

<210> 11082  
 <211> 363  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11082

gcttctaaac tntgtacaag aatgaagctc tgatactcac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaaat 120  
ctatcttact ttntacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180  
tcaaatagaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240  
agagaaaatg caaactcagt tntatactgg ttcggccaca cccttgtgcc tacgtccagt 300  
ccccaagcaa cccgcttgag agttccacta acttgtaaatt tccttttaca agttctaaac 360  
aca 363

<210> 11083

<211> 333

<212> DNA

<213> Glycine max

<400> 11083

tcatgagaga gtcatagatc aaattgagag gtataataat ttctatgcta aacaagccat 60  
caaagggaga aagaagggtg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120  
agaaagggtt ccggaacaga ggaaatcaaa gcttcaacca gggggagatg gaccatttca 180  
agtgttgaa agaatacatg acaatgctta caaagttgag ctgcccgtg agtataatgt 240  
tagttccacc ttcaatgtct ctgatttatc tctttttgat gcatatggag aatccgattt 300  
gaggacaaat ccttctcaag aggagagaa tga 333

<210> 11084

<211> 336

<212> DNA

<213> Glycine max

<400> 11084

tgaaggtaaa ctagacgcct tggttaacct ggtaacccaa ctggccatga ataagaaatc 60  
tatacctgtc gcaagactct gtggtttatg ctctctgcc gaccaccata cagacctttg 120  
cccttttgtg cagcaatctg gagcaattga acagcctgaa gcatatgttg caaacatcta 180  
caatagacct cctcaacctc agcagcgaaa tcaaccacaa tagaacaatt atgacctctc 240

caacaacaaa tacaatccca gatggaggaa tcacccta at ctcagatggt ctagccctaa 300  
acaacaacaa cagcaacctg ctccttcctt acaaaa 336

<210> 11085  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11085

gagaacaatg acaattgaag aatcaattca tgtttccttn tatgagtcta atgctatttc 60  
tctaataaag gatatttttag atgatattac agaatcttta gaacaaatgc acattcatgg 120  
acaagattct aaaggaaaag gagaaggaaa caataaagat cttcagcag aagtcaaagc 180  
aaataatgat cttccaagag agtggaaagc ttcaagagat catccccttg acaacattct 240  
tgggtggcatc tcaaaagggg taacaactag acattctctt aaagatntat gcaataatat 300  
ggcttttgtg tctatggctg aacctacaaa tataaatgaa gccataatag atgatcattg 360  
gatagttgct atg 373

<210> 11086  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11086

tcacctgcgg catgcaagct tctccacagg acatatactn ntgtgtttac catccttgca 60  
atgaggcatt tgaggagttg aggaagaagt ttaccacctc tcctatcttg tagccactag 120  
attgggagct tccttttgtg ctcagtgcg atgcctctag ccatgcactt ggggatattt 180  
tgtcattgag agttggtagc ctctcccaca tcatngctta tggttcatgc actntagatg 240  
caacctaagt taactacacc accactgaga aggagctntt agctattata tttgctttag 300  
ataaattcat atcttatttt ctttgcctcc atatgatngt cntactgaa catgcagctt 360  
tgatatactt attgaagatg cctgatgcta aacctatatt gatcaagtga aagc 414

<210> 11087  
<211> 400



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11087

ngctctcata acacttactt aaagtagcta tgtnattata taagttcaaa taagctggac 60  
atataaactc ttccagtgc tattatcagc aaagactcac ttgngggtaa catgcaacat 120  
gtaagaggggt atgcatataa agcatactac ctgagactag accatcatat aaacccatgc 180  
atgcatacct tgcaatttct gctcgtcttc tagcctcttc agccatctga ttaagttctg 240  
tgtaacttgt acgttcattg aacatcttag gctctggtgg gcgaaagccg tgaagcgtcc 300  
tctgtgcatg tgcccattta agttcacgtt ctctctattc aaaatctatn ttccttgtag 360  
aagcaatctg acacagaatt catattacag agtaagcaac 400

<210> 11088  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 11088

tgaaggaaaa ctggatgcat tggttaactt gttaacccat ctggccttga atcagaaatc 60  
tatacctggt gcaaggtttg tggtttgtgc tcctctgctg accaccatac agacctttgc 120  
ccttccatgc agcaacctgg agcgattgag cagcctgaag cttatgctgc aaatatttac 180  
aatagacctc ctcaacctca gcagcaaaat caaccacagc agaaaaatta tgacctctcc 240  
agcaacagat acaacctggt atggaggaat caccctaacc tcagatggtc cagccctcag 300  
caacaacaac agcagcctgc tccttccttc caa 333

<210> 11089  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11089

agcttatgct gcanacatct acaatagacc tcctctacct cagcagcaaa atcagccaca 60  
acagaataac tatgacctat ccagcaacag gtacaatccc ggatggagga atcatcccaa 120  
ccttggatgg tcgaatcctt aacaacagta gcaacaacaa caaccttatt ttcaaaatgt 180

tggtggccca accagaccat acgttccttc accaatccaa caacaacaac aaccgcaaca 240  
 gccccagaaa tagcaaacag ttgagacccc tccgcaaccc ttccttgaag aacttatgag 300  
 gaaaatgact attgcaaaca tgcagtttca acaagagacc agagcctcca ttcagagctt 360  
 aactaatcag atgggacagt tggatg 386

<210> 11090  
 <211> 197  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11090

tgtcacacac aatggagggn aatntgaatc tcaattcann attcacttga atctganatt 60  
 gaatttgtgg agccaacact tggagccaan atttactaa ttatgattag tgggaatttag 120  
 ttatggttca gccactaat ccaagatcaa ttccaagatt ctccactaag tgtgcttagg 180  
 tgatcatgagt aggggtg 197

<210> 11091  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11091

ctaccaacta cagaccctaa gaaaactata ttatctacac agaaagtaca cttctctata 60  
 tttgcataga ggggtgttctt cctaaggact ganagaactt gcctgagatg tcctaagtga 120  
 tcattctacgc tctactgta cactaaaata tcatcaaat atacaactac taatctacct 180  
 atgaaatccc tcaagacatg atgcataagc ctcat 215

<210> 11092  
 <211> 211  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11092

cgatggcctc aataacatct attctccaca tggaanaagg ccaaggagcg gacataacgt 60

tcagaggatg tggcggaaca tcgacattgt ccgcgtatgc tngacantta tgacacttcc 120  
 ttacatgagc gcagcaatcg ctttccatgg tgagccaata ataaccggcc ctaanggatt 180  
 ntctgggtcat agcatgccca ttggcatatg t 211

<210> 11093  
 <211> 174  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11093

atgatctttc aagcaacaga tacaatccat gttggagaaa tcatccaaat ctgagatggg 60  
 caagtccctcc acaacaacaa tagcctgtcc ctcttttcta gaatgctgct ggtccaagca 120  
 agccatatgt tcctccaata caaaagtagt cacaacanag acaacaagca actg 174

<210> 11094  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11094

atcgctatga atactatatt gttgacatga tactacgtaa gngaacttca tgtcagctaa 60  
 tgaatggcat tgtgtccaca gtgaccgctc accagttgta ctctccatgc tctctagtcc 120  
 tgcagccttg taacctctca ttaattctgt gaagtganat gacaatatta agctcagcca 180  
 ataatagata agggaatgat ctctctntct ctctntcaat gagatttccg caatatacct 240  
 tcaccccttg ccatatcaag aaaagcctgt agctccaatg cttgtcggat atacatcatt 300  
 cctcggactt cac 313

<210> 11095  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <400> 11095

atacagtatt ccattataag tactcttatg caaaccatac agttaatatc ttgtatatat 60  
 attgatacaa cataagtga tgaatgacaa tttaaattaa taatacatat taaacaataa 120

acgccatata tatatatattca cgtaattgtg taaataattg attacattat atctgtaaaa 180  
 atttttagaaa tcatttaacg tgaaggagta tatataaata tacaatatat gtgtatgata 240  
 tgtacaataa aatgcaaaga gattgtgtac ttacataata taaagatgat ttaaattccta 300  
 aaatttttaa atttatatat cagaataaag ttctatcact ctcttattta atgtattgaa 360  
 atcttaaatt tatgaatgat tattaanaag ttccttatt 399

<210> 11096  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11096

tcaatcaata gacctctaatt cttaaatgga gaggtgtacc actactggaa aacccgaatg 60  
 caaattttta ttgaggcaat agacttacat ttgggaaggc atagaaatat ggccttatat 120  
 acccaccaca gtagaaagaa ccacaataga tggaagcaca acaagtggaa gcaccacaat 180  
 agagaaacct atagatagat ggtctgaaga ggatagaaga tgagtacgat ataatttaaa 240  
 agccaaaaac ataattacat ctgccctgng aatggatgaa tattttangg tttcaaattg 300  
 taagagtgtc aaggaaatgt gggacactct acaagtaaca catgaaggca caacagatgt 360  
 taaaagatct aggataaaga cattaactca tgaatatgaa c 401

<210> 11097  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<400> 11097

agctttacta ataaaacatt tttcatgatt tgatgtttta tctaaaatta tcatgtatac 60  
 gttatttggt ctatagccta tatgttttat atttttatca tgtttatttt caataacaca 120  
 attatgagag tcaaatgata ctacaaagcc tttatcacat aattgactaa cacttagtag 180  
 actatgctta agaccatcaa caagtagaac attttcaatg gaagtagatg gattcgtacc 240  
 tatttttctg actccaagaa ttctaccttt ggtgttgacg ccataagtca catgtt 296

<210> 11098  
 <211> 315

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11098

tcttcnggat tataattgat gttatctcgc aacctttctt ctatgaaact cacaatccaa 60  
tcaacagaag cctgatgggtg cccattgttt gcatttctcc cacatgtatg tgtaccatca 120  
atactgctaa taaaaaatgc tggggcatta tggagcttga cagcacgaat ccgccatgga 180  
cagccatctg aggcacactt agcaaagtag cgaatcaggt cactcttaat agtacgaagc 240  
tcaaaatgct gtgcaaaggc agcttcttta attgcattcc gaaatgcctt cacatcatgg 300  
aactcttgac cgaca 315

<210> 11099  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 11099  
agctttaaaa tgattatgga ttgattggca gatagtcaag tcaataatat catatcgaaa 60  
ttgatagctg ctcatgaaaa agatgggtcat gtatacaata tcccaaagt tccatgaagt 120  
gctgcactta ttgttgatga ttttgatcca agctcaaaaa gagatattat tgttgaaact 180  
caaaatggag aactacaaag aatccatgaa ttgcactcta gctatctaag cctacagtac 240  
cctctactct tcccttatgg tgaaaatgga tataaagctg acatacttta ccg 293

<210> 11100  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 11100  
agcttgtgaa tgtatatctt tcatttccaa cttgcaagta aggtcttgaa gttgctccgt 60  
gggaagtcct tggttaaggga tgtattcggt ggctataaga ccactgtcta atttttcctt 120  
aataaaatgt cgattaatct ctatgtgctt tgttcgatca tgttgaactg gattgtgtgc 180  
aatgctgatg gcaaacttat tatcaciaac cagtcacata ggaacttcat attttatttt 240  
gaggatcatca agtatgatat tcatccataa caacttacia acacctt 287

<210> 11101  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11101

aagaattaaa aagtacatcg tctacaaatt cgagattgac aaggaatatt ggggatttta 60  
 aaaaatagga gaaagaaaat tacatcttag tcaaataaac taatgagggt atgctctata 120  
 ttcatntttc ataattatcg taattagatt ctttaacttt ctaatgagac ttcgagatat 180  
 ttccacaaac ttcaatTTTT taggtcaatt atgagactaa atgatctata tattaatatt 240  
 ataaataatc ttttacattt ttatctaata aaaaattaac aagtataata aatatatcaa 300  
 tctttaaat aatcattttt atgacattct aaaataatac tttaaaaaac atgtaaacta 360  
 ttgattctta ttnggagatn tatgtaaaat taactatgta cagaatanan actctttaca 420

<210> 11102  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 11102

agcttctaaa ctttgtacat gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
 gatattctaa gaaggggggt tgaattaaga tattccaaac tgtttcccct aattaaaaat 120  
 ctatttcact ttttactcaa gttatgaatt cccttaatga caatcttctt aaatattaat 180  
 tcaaacgaag caacttgaat atgaatataa agcaataata aataaaggag attaagggaa 240  
 gagaaaatgc aaactcagtt ttatactggt tcggccacac ccttgtgcct acgtccagtc 300  
 cccaagcaa 309

<210> 11103  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11103

agctttgatg gtgtcgagat taaattacat gtttgncatc gtaaaaaagg ggtagaatgt 60

gaatgtatgt atacatgatt ttgttagtgc ttagctttac tgagctttaa aagattggct 120  
 aaaattttgt taaaacataa gcacttatac aatgaaggaa agctggagtt gctgcacatg 180  
 atgtccaacg ttatgtcaag gaatcagatc gggctgcaca atgcacaagg caagatataa 240  
 tgtcaaatga agaattgaag ctgcaggatc cagcatgtcg gatacaatgt ccaggacatc 300  
 ctgcc 305

<210> 11104  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11104

tcttagtttc agatgatgca gatgggtntg tagctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatttc 120  
 tgacttcagc aagagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaat attggagaag aagctgttct gaaatctgat 240  
 ggtgggggca actggcacat agtttcttaa atctctccca gtactcatac aggctctctc 300  
 cactgagttg tctaatacct gagatatacct tcttgatggc tgtggtcctg gaagcaggga 360  
 aaaatttctc taagaatact ctcttaaggt catcccagct tgtgatggac cttg 414

<210> 11105  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 11105

agcttgcaac ataatctgat tggtgattat cttggagtct tgggtggttag gccatgaaaa 60  
 cctatttaga gagacttcct tggagaaagg cattgttgaa atccaattga tgcatttgcc 120  
 aacatttggt caaagccagt gtgagtataa attttatagt ttgcggtctt acaactagt 180  
 taaaggctca ttgaaatct acactaaa 208

<210> 11106  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 11106

ccagtccttg agaaactggg tcccagaaga caacgtgtag tattgattgc tcgaaaccct 60  
agccttgcag caagtgttag ggaagtacac acgggtgatg acgagaaaat ccgcggtatt 120  
gtgagtagca ttttgaaaga cgcttctgtg cctgatgctg ataaagatgt ttcaacatct 180  
ttcaccccaa atgttgctgt gcctgatgtt gataaagatg tttcaacatc ttccgctcca 240  
aatgctgaag cccttccttg acccagtga gaggaatcaa cagaagaaga tgatctagcc 300  
tcagatgaga cccctgcacc actggcacca gaacctgctc cacgtgatct cattgactta 360  
gaagaagtct aatctgat 378

<210> 11107

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11107

ctatgctctt gtgtggtgga tctagctaca aaaggagaga gcaagaaatg aagagccaat 60  
ggttgatata tggacagaga tgaaaaagat catgaggaag cgatatgtgc cggctagtta 120  
ctcaaggggac ttgaaattca agctccaaaa actaacccaa ggcaacaagg gggttgagga 180  
gtatttcaag gaaatggatg tggatcatgat tcaagcaaag attgaagaag atgaggaggt 240  
aactatggct cgatttctta atggcttgac taatgatatc cngatattg ttgagctaca 300  
ggagtttatt gaaatggatg atttgcttca caaagcaatc caagtagagc aacaattaan 360  
aaggaaagga gtggctaaga ggagtntac caactttgcg ttcttctagt ggaaagacaa 420  
aggtaagaaa gatggggctg ctacttctag tagttcctca ccta 464

<210> 11108

<211> 480

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11108

atgccttggg taacctggta acccaactga ccatgaataa aanatctaca cctgtcgcca 60  
tactctgtgg tttatgtcca tctgtcgacc accacacaga cctttgcctt tctgtgcaac 120



aatctgaagc aattgaacaa cctgaagctt atgctgcaaa catctacaat agacctctc 180  
gacctcagca gcaaaatcag ccacaacaga acaattatga cctctccagc aacagggtaca 240  
atcctaggta gaggaatcat cccaacctta gatggtcgaa tccttcacaa caggagcaac 300  
aacaacaaca gccttatntt cagaatgttg ctggcccaag caaaccatac gttcctccac 360  
caatccagca gcaacaacag caacagcccc agaaacaaca aacagtacag ggctctccac 420  
aaccttcctt tgaagaactt gtgaggcana tgactatgca naacatgcag tntcaacaag 480

<210> 11109

<211> 299

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11109

agcttgaagg taaactanat gccttgggta accaggtaac ccaactggcc atgaataaaa 60  
aatctgcacc tgtcgccagt ctctatggtt tatgctctc tgtcgaccac cacacagacc 120  
tttgcccttt tgtgcaacaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaacaa 180  
tctacaacag acctcctcaa cctcaacagc aaaatcagcc acaacagaat aattatgacc 240  
tctccagcaa caggtacaat ctcggatgga ggaatcattc caaccttaga tgggtccaat 299

<210> 11110

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11110

actcgtcaac gagaaaggta acgtagggtg ggtattatntt ccacacataa acgcactctg 60  
gccttagata gagattctgt tgggaattcc tctgaaagta aggccttcct cactggtagg 120  
aagaagcaca gtataaggca tctgaaccgg tccattacag attctaaggc ttgaatctnt 180  
gttcctcgaa ttgattttgg cctcaatttc cttcagcttg gttccaaact tttcaaaggc 240  
ttgaattgcc ttttgggtcat cactccaatc gtcactgtcc ctctttccaa cgtagatatc 300  
atcacaagca tgtcttgaca ata 323

<210> 11111  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11111

tactcagctc agcaactctt tctttntggt tagtcaagac ctctaattgct cttaatctct 60  
 cctcatctaa atcaaccaac tcatctaaca tcattgtcca ataatgggtcg attggaatgt 120  
 ccattagttt ttgtaccctg gctgattgca aatgtatttc gaccggaagt acagcatcat 180  
 gcccataact cagtcgaaat ggagtagtat tagttgattc cttatgagaa tttctacatg 240  
 cccatagaac ttgatctaac gttntattcc aatttccttg ctattgggca atgtgttttt 300  
 taatcaagtt aattacaatc ttattggctg cttcgacctg accaattgct tgcgcgtaat 360  
 atgggtgttg ggttcataat cgaaagccaa tattgtgggc aaatactttc atttttcgtg 420  
 cagctaatac tgaacctaga tcagt 445

<210> 11112  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11112

cgccaccacg gagttntcca actatgctct tgtgtgtgtg gaacaagcta caaaaggaga 60  
 gagcaagaaa tgaagagcca atggttgata catggacaga gatgaagaag atcatgagga 120  
 agcgatatgt gccggctagt tactcaaggg acttgaaatt caagctccaa aaactaacc 180  
 aaggcaacaa ggggggttgag gagtatttca aggaaatgga tgtgggtcatg attcaagcaa 240  
 agattgaaga agatgacgag gtaactatgg ctcgattctt aatgggttcac taatgatatc 300  
 cgcgatattg ttgactacac gagtgtattg aaatggat 338

<210> 11113  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11113

tatgctgcan acatntataa tagacctcct cagcagcaaa actctcntca gantaataat 60  
tatgaccttt caagcaatag atacaatcta gggtggagga atcatccaaa tctgagatgg 120  
acaagtcctt cacaacaaca acagcttata cttcctttct agaatgctgc tggccaagc 180  
aagccatatg ttcctcctcc aatacagcaa caacagtcac aaaatagaca acaagcaatt 240  
gaggctcctc ctcaaccttc cttagaagag ttagtgaggc aaatgaccat ccagaatatg 300  
caatttcagc aagagacaag agcctccatt cagagtctaa caaatcagat ggggcagatg 360  
gctactcaga tgaaccaagc tcaatccaaa ttctgacaaa tggccttcac aaactgtgaa 420  
anatccaaan aaatgtgagt gtcacacct tgagggtctgg caccaaattc aa 472

<210> 11114  
<211> 302  
<212> DNA  
<213> Glycine max  
<400> 11114

agcttgtaaa tcatcagtaa aacaggccac gaactatggg tgctgcttaa gttaccataa 60  
ggattcattc catcagaagc aagagcaacc cttaggttcc ttggctcgtc cctaaactct 120  
ggatacaaac aatcaattgt ctccattat ggagaatcgg taggatgtcg tagtaagcca 180  
tcactttttc tgtccactga atgccatgaa aggttttttg aatcatgtct attagcaagc 240  
aatcgcttaa accttggtat gattggaaga taccagccaa cctttgcagg acgacaattt 300  
tt 302

<210> 11115  
<211> 306  
<212> DNA  
<213> Glycine max  
<400> 11115

agctttaaaa actttcattt taccctctga tcgcttaaca tgcttaatgc tttctctaata 60  
tttggttaca acaggaccga ctactttcaa cccctcttga acaataagggt ttaaaatgtg 120  
agcacaacat cggatatgaa aaaattcacc gccacttact aaaccattag tatgcaaaag 180  
tttttccttc aaatagtctt gcattttatc attggaagaa gcatcatcta gagttaatga 240  
aaatattttc tgctcaatcc ttcattcttc caaaaaacca tatataactt tagccatccc 300

atgccc 306

<210> 11116

<211> 306

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11116

agcttgaagg taaactanat tcctttttta acctggtaac ccagctggcc ttgaatcaaa 60

aatctgcacc tgtcgccaga ctctgtggtt tatgctcctc tgccgaccac cacacagacc 120

ttttcccttt tgtgcaacaa tctgaagcaa ttgaacagcc tgaagcttat gctgcanaca 180

tctacaatag accttctcaa cctcagcagc caaatcagcc acaatagaac aactatgacc 240

ccccagcaa tagggaaaat cccgggtgga agaatcatcc caaccttaaa tggggccaatc 300

cttcac 306

<210> 11117

<211> 297

<212> DNA

<213> Glycine max

<400> 11117

agctttcttg agagtgcttc tttgagaagt taacgcttta actaccaata cacttctaata 60

aactaaactc acctccttga aaataaaaca tggataaaat aacacaacaa atataattaa 120

acatcaaata taattactaa taatatttca gggtgcaaca cccttctcta cctctatctc 180

cactcatctt ctctacctt taagctctta tccatggctt cctatgggtg tgaaaatggt 240

cttggctaata cttcttcttg aagaggcgtc ttccaacacc ttttctactt cttcaat 297

<210> 11118

<211> 303

<212> DNA

<213> Glycine max

<400> 11118

agcttatgct gcaaactct acaatagacc tcctcaacct cagcagcaaa atcagccaca 60

atagaacaat tatgacctct ccagcaacag gtacaatccc gggttgagga atcatcccaa 120

ccttagatgg tcgaatcctt cacaacagca gcaacaacaa caacagcctt attttcaaaa 180

tgttgctggc ccaagcagac catatgttcc tacaccaatc caacagcaac agccctagaa 240  
acagcaaata gttgaggctc ctccacaacc ttcccttgaa gaacttgtgt ggcaaatgac 300  
tat 303

<210> 11119  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 11119

agctcgggta cactaggatt tctcttttcta tcttgaaacc tcaagactcc atcagttccc 60  
actctaaaac tactctctct ccttgcgact atggactcta actgggctga caagaatggg 120  
gcaaactttt gaccctcacg gatctcgctc aagagttcgc tggcgactct caacataccc 180  
aacttaatgc ctctagaggt gaactcacat gccatactca tgtctctaaa ctgctctaag 240  
aggtccaact ctttaaccat catagcagac atttgaaggg a 281

<210> 11120  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 11120

agcttactaa ggcacctgtt ttatcttttc ctgacttttc taaaactttt gagctacaat 60  
gtgatgcctc tggagtggga gttgcagctg tattgttaca aggtgggcac cctattgctt 120  
attttagtga aaaacttcat agtgccaccc tcaactaccc catctatgat aaatagcttt 180  
atgccttaat aagagccctc caaacttggg aacattacct tgtttccaag gaatttgtca 240  
ttcatagtga tcatcaatca cttaagtaca ttagagggga aagcaagtta aaca 294

<210> 11121  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 11121

tcagcttctg tgtcctatga ccataaggct atcattatca atggacagag aaggatactt 60  
ctttctgggt ccattcacta cccagaagc acccctgagg tattacactc aaatgtattt 120

caggtttctt tccattttgg cctttttttt tttttatcaa atgggcacct taaagtatct 180  
tccttttttc agatgtggcc agatcttatt cataaggcaa aggaaggagg tttggatgtc 240  
attcaaactt atgttttctg gaatggacat aaaccttcac ctggcaaaga aatgaataat 300  
gtttgcttgc 310

<210> 11122  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 11122

ctaagctttg agccattcaa acaacaataa ctttttactc gttgtttgat atagtcccg 60  
gatataacga tacgctcgaa attgactggt gaagctctga cctgaccta actatcatat 120  
gcaatgactc ggatgtctga ttgaggcccg ttatatatcg agacgctcga aattgaatgt 180  
ggaagctctg agccaattca aacgacaata actttttaca cggatgtctg attgagtccc 240  
gtcatatatc gagacgctcg aaattgaatg ttgaatctct gagccaattc aaacgacaat 300  
aactttttac tcggatgtct gattgaggcc cgtcgtatat cgagacgctc gaaattgaat 360  
gttgaagctc tg 372

<210> 11123  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 11123

agcttcaaca ttcaatttcg agcgtctcta tatgtgacga gagtcaatca gacatccaag 60  
taaaaagtta ttgtcgtttg aattggctca gagcttcaac attcaatttc gagcgtcttg 120  
atatattacg agactcaatc agacatccga gtaaaaagtt attgtccttt gaatttgctc 180  
acagcttcaa cattcaattt tgagcgtctc gatatatgac gggactcaat cagacatccg 240  
agtataaagt tattgtcgtt tgaattagct cagagcttca acattcaatt tcgagcgtct 300  
cgatatgtga cgagactcaa tcagacatcc gagtaaaaag ttatt 345

<210> 11124  
<211> 281

<212> DNA  
<213> Glycine max

<400> 11124

agctctgtct tctttggatg cttacttgtg gcaatatttc attaataatg agatggattc 60  
tttagaatct aacaaaaccg ggcatttagt agacttgcct cctggctgca aaccaattat 120  
atgtgaaatc attgttgaga aacaactttg atatgaaaga ccttagagaa gcatgtgtaa 180  
tccttggat taagattact aggtcaaaag aggaaattta tatgaatcaa tctcactaca 240  
ttgagaagat cttaaagaaa tagattactt tgaactgtaa a 281

<210> 11125  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 11125

agcttgtaat cgattacaca agtatgggat tttcagaaaa taatttcaa gagtcacatc 60  
tattcaaatg gtttatgaat ggccatcaaa ggtgacttgg aaacacgaat taaaagaaaa 120  
ttttcattgc ccaaaaagtt ttatcctctc aaaagaaaaa tttttctgaa ctgaaatgtc 180  
ttatcctctc aaaaagattc cttgggtcaac cacttgtata ttcaataagg aattttgatt 240  
gatcttcatt gtacaatcta tctcttttaa gagagatttc ttcttttctt cttcttattt 300  
ctgaaaaggg attaagagac cgtgggtctc ttgttgt 337

<210> 11126  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 11126

tgaaattgaa caacagaagc tcacgagaaa ctacatatgg tcataacatg tcacacgaaa 60  
gtccgattca ggtgcataat atatcgagac gctcgaaata gaacatcgga agctctcgag 120  
aaattccaat ggtcataact tttcacacgg aagtcctatt caggcgcata atatatcgag 180  
aagctggaaa ttgaacaacg aaagctctcg agaaaactcaa atggtcataa cttgtcacac 240  
ggacatccga ttcaggcgca taatatatcg agacgctcga aattgaacaa cgtatggtgt 300  
cgagaaattc aaatggtcac aacttgtcac acggaag 337

<210> 11127  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 11127

agcttgaatt tgaactacag aagctcttga gaaattcaaa tggtcataac ttatcacacg 60  
 gaagtccgat tcaggtgcat aatatatcga gaccctcgaa attgcacaac ggaagccctc 120  
 aagaaagtca aatggtgata acttttcaaa cggaagtccg attcaggtgc ataatatatc 180  
 gagaaacttg aaattgaaca atggaagctc tcgagaaatt caaatggtca taacttatga 240  
 cacagaagtc cgattcaggc gcataatata tcgagacgct cgaaattgaa caacgaaagc 300  
 tctcgagaaa ttcaagtggc cataactttt c 331

<210> 11128  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 11128

ttactatgca aagaataacc aaggaaaatt ctttcatctg acttagcatc aaactttcct 60  
 aagctttctt ttccattggt taatacaaaa cacttgcaac caaaaacatg aagatgagag 120  
 atgtttgggt tcctaccatt gaatagttca tatggagttt tctttaaaat tggattatt 180  
 aaagccctat tcatgatata gcatgcagta ttagcggctt cagcccaaaa atattttgga 240  
 agaggagtat catttaataa ggatctagca atttcttcta aagacctatt tttcctttca 300  
 acaactccat tttgttgagg ggttctaagt gcagaaaagt tatgttcaat gtcatgctta 360  
 tcacaa 366

<210> 11129  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 11129

cttgcgtgca cgactttctt atcttcaaag ttattttatt agtcatatt ataaaatgac 60  
 atacaaacat atgagtcag ctagctatct taaacaatat gaaacttaat tttttgtgat 120



agccttcaaa ctacaacaat gattattatc ttctttttta acaaattctat attttttttat 180  
tacaacgtag ctaatgtggt ttatgttgaa ttcaaatttc taatatcaat ttttaggatg 240  
ttttagattt taaagatact atccaatctt tttaagatgt ttatttttaga aattaatgtg 300  
ttttttatgt taagtttatg atttggtata aaatagaggt tttataaaaa aaattatcaa 360  
gcatggaata gata 374

<210> 11130  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 11130

agcttagaca attacatatc cttcttcttt gatacaacta attcaaaata atctatttca 60  
tggtctaccc aatgaagacc cttatgctca cttggccatc tatatagaga tatgcaatat 120  
tatcaggttg gtgggtgtgc ctgcggatgc aatcaggttg agtctgttct cattttcttt 180  
atctggagaa gctaagagat ggcttcattc ttttaaagga aacaatctga agtcatggga 240  
tgaagtagta gaaaagttct taaagaagta cttccttgaa tcgaagacta cagaaggcaa 300  
agctgccata tcttttttcc accagttacc a 331

<210> 11131  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 11131

actcaagctt caccatgtaa gcagagcata aaatattatg tttctgtaag agaaaaatat 60  
atacagaaga atttcttgaa ctcttaccaa tcagtttttc atcactttat gaagaaaatc 120  
ataactgtac agcaaaaaaa attctattat cctctatca atcccttgcc ttctatattc 180  
tttttattag agattctatt gatgcttgga ttctacttcc ttctgtttgc ctactgcct 240  
gagatgcctc atgcagatgc tgaatccac gacctaaact agcaatggag ggggctgcag 300  
ggagagactc aacagcacac tcaatcccat caccatacaa aagcagctt 349

<210> 11132  
<211> 319

<212> DNA  
<213> Glycine max

<400> 11132

agcttatttta ttcaatttcg agcgtctcga tatattacga gtctcaatca aacatccgag 60  
aaaaaagtta ttgtcgtttg aatttgctca gaggttcaac attcaatttc gagcgtctcg 120  
ttatattaca ggactcaatc agacatccga gtaaaaagtt agtgtcgttt gaattggctc 180  
agagcttcaa cattcaattt cgagcgtctc gatgtatgac aggactcaat cagacgtccg 240  
agtaaaaagt tattgtcgtt tgaattatct cacaggttct acattcaatt tcgagcgtct 300  
cgatatattt caggactca 319

<210> 11133  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 11133

tcgaagccat tgaaccacc caaaagggag cgttgtcgta gaagactcaa tcgggtttgg 60  
aagattcgag aaaacgtttc agcgttctt ggagaacgtc gtaggcttct ttgagtggt 120  
caaagacgtc gtaggggatg tcagtgttg cttctgcgtt ttctggaagg ttttgactt 180  
taggcagtgg aaggttcacg aaattgatat caagtgtgtt tagtgacggg tttggaagac 240  
gctctatgtt tcttgggtgg atacgaaact cacgtggtga cccttttgag caatgagttt 300  
ggccagctca aggtttggga tcatgtgacc aaaggctagc 340

<210> 11134  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 11134

agcttgaagg caaactggat gcattggtta acttggtaac ccaactggcc ttgaatcaga 60  
aatctgtacc tgtcgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240  
tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tggtcagcc 300

ctcaacaaca acaacaacag catgctcctt cct

333

<210> 11135  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 11135

agcttatggt gcaatcattt gtaatagact ccatcagcag caaaaccaac aacaacaaaa 60  
taattatgac ctttcaagaa atagatacaa tccaggttgg aggaatcatc caaatctgag 120  
atggacaagt cctccacaac aacaacagcc tgteccctct tttcagaatg ctgctggtcc 180  
aagcaagcca tatgttcctc ctccaatgca gcaacagcag caacaatcac aacaaagaca 240  
acaagcaact gaggctcctc ctcaaccttc cttagaagag ttagtgaggc aaatgaccat 300  
ccagaatatg caatttcaac aagagacaag a 331

<210> 11136  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 11136

agcttaatag agctcattat ggtctcaagc agggccccag gcaatggttt gaaaggcttc 60  
agactacctt acttcagttt gggtttgtgg caagtaaagtg tgatctctct ctgttcattt 120  
acaagaccaa gtctcacact gtatatctcc ttgtgtatgt tgatgatatt ataattactg 180  
gaagttctat tcctttaatt caacatctta cctctcagtt gaactcaaaa ttctctctca 240  
aacagcttgg tttgttaaga ttattttctt ggaatagagg tgaagactct ggccgacaaa 300  
tcaatactgc ttactcaaag c 321

<210> 11137  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 11137

tctaagcttt gagcaaattc aaacgacaat aactttttac tcggatgtct gattgagtcc 60  
cgttatatat cgagacgctc gaaatggaat accgaagctc tgagcaaatt caaacgacaa 120

taacttttta ctcggatgtc agattgagtc ccgtaatata tcgagacgct cgaaatggaa 180  
taccgaagct ctgagcaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt 240  
cccgtaatat atcgagacgc tcgaaattga ataccgaagc cctgagcaaa ttcaaacgac 300  
aataactttt tactcggatg tctgattgag tcccgtata tatcgagacg ctcgaaattg 360  
aatacc 366

<210> 11138  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 11138

agctttctaca ttcaatttcg agtcttttcg atatattacg ggactcaatc ggacatccga 60  
gtaaaaagtt attgtagttt gaatttgctc agggcttcgg tattccattt cgagcgtctc 120  
gatattattac gggactcaat cggacatcag agtaaaaagt tattgttggt tgaatttgct 180  
cagagcttcg gtattccatt tcgagcatct cgatatatta cgggactcaa tcagacatcc 240  
gagtaaaaag ttattgtagt ttgaatttgc tcagggttc ggtattccat ttcgagcgtc 300  
tcgatgtatt acgggactca atcagacatc cgagtaaaaa gt 342

<210> 11139  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 11139

tcaacattca acttcgagcg tctcgttata ttatTTTTCT caattagaca tccgagtaaa 60  
aagttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc gtctccatat 120  
attacgggac tcaatcagac atccgagtaa aacgttattg gtgtttgaat ttgctcaaag 180  
cttcaacatt caatttcgag cgtctagata tattacagga ctcaatcaaa catccgagta 240  
aaatgttact gtcgtttaaa tttgcttagc tctccagctt taaatttcga gcggctcgat 300  
atatgacggg actatattat acatccgagt aaaaagttat tgtcatttga atttgcttag 360  
agattc 366

<210> 11140  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11140

tcaagaaaaa tggcctcagc aaatttctta ttttcaaaag gaaattctat caatagacct 60  
 ccaatcttta atggagaggg ttaccactac tagaaaaccc gaatgcaa at ttttattgag 120  
 gcattagact taagtatttg ggaagccata gaaatagggc cttatatacc caccacagta 180  
 gaaagaatta caatagatgg aagcacatca agtgaaagca taacaataga aaaacctaga 240  
 gatagatgat ctgaagagga tagaagacga gtacaataca attttaaagc caaaaacatc 300  
 ataacatctg ccctgnga at ggatgggttt caaattgtaa gagtgctaag gaaatgtggg 360  
 acactctaca at 372

<210> 11141  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 11141

agcttgcaaa ttattttccc ttgctagaga tcaatcaaaa cccctcctac ataaaggaag 60  
 ggctttccca aaataattgg aatttcctaa tcctccttta tgtccatgat caaaaaatca 120  
 gcttgaaaaa tgaatttacc aactatgata agcaaattct ccactattcc tttcagataa 180  
 gtaatagttt tatctacaag cacaagagaa atgttaatgg gttgggggtt ttgtaactcg 240  
 aacttcttat aaacaaaata aagcatcaaa tcaatgcttg caccaagatc acataaggct 300  
 ctatcgattt tcaagctacc aatagtacaa gggattg 337

<210> 11142  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 11142

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 gcttctttga gaagctagat ccttatctat ccacaccct cttttaactt aattaacctc 120

cgtataaata attacggatg aaaataacgc aacaaataat caaacatcaa acataattac 180  
 taataatata tagatatata tatctgggtg ttacaactct cccacccttt tagaaatttc 240  
 gtccctcgga tttaccttac tcaatcaagg atgggtgagc ttctcgcatc tgactttcta 300  
 attgccacgt ggcattctct cctgatgcac ctccccagat caccttgacc agcggaatct 360  
 ctttcctct t 371

<210> 11143  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 11143

tgacggagtt tgtagcatca gggaacaatt ttattttaaa agtgggtccc aattggcgtc 60  
 ctaattttcg gctttcctat ttggatgtga catcatggca gttaagtccc aactttccat 120  
 cgtggattca gtcacaaaac aaacttcaat atgttggact gtctaacacg gggatttttag 180  
 attctattcc cacctgggtc tgggaaacac cttctcagat ttgtattta aacctctctt 240  
 ataatcatat ccattggtgag attgagacta cattaagaa tccaatatct atccaaacta 300  
 ttgatctaag ctcaaatcac t 321

<210> 11144  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 11144

agcttcacac tacttgatac ctattctaca ttttcagcaa tcagagaatt taaataataa 60  
 cttgcgaggt caagatagac caaattggag agattcccaa tctgagatgg aatcttcccc 120  
 atgaatccat taccagagag gtcgaggtga gtcaaggaag tcattgtccc aaggaaagaa 180  
 ggaattgaca taccttctcc aagaaatcta ttgccgctca agtccaagta attcaaatgc 240  
 tttaaatacag ccaaacaagg acttatctct ccaccaaact ggaatcccct ataagcttcc 300  
 ctatcaaagt agccatcata gtaa 324

<210> 11145  
 <211> 361  
 <212> DNA

<213> Glycine max

<400> 11145

agctcgtctt ttctagaaaa cgaggtgcc aacgatcact tccacttgag atccccacat 60  
tgctttctcat gtgtcctcag atcagagagc accgagaact gcttctgggt gcacctcttg 120  
cacacgtaca ttttggggca gtggcttctc ttgtaatggt tcttggcaca aatcattgac 180  
ttcagtgggt ggaacttggc atgcctctgg ttccacctac accctcttg aggacacgaa 240  
tacctctttg gcttcacact catcaaacac tctagatctc tttggttctt aattgggtta 300  
ctcaaagcag cattgggtctt gtactcatcc ccgtgagccc tcatgtgcat cctcaaattc 360  
g 361

<210> 11146

<211> 329

<212> DNA

<213> Glycine max

<400> 11146

agcttgtagg gttaaagtct cacgattgtc atgtgctcat gcaacaattg ttagtcgtgg 60  
ctatacgaga catcttgcca aacaaagtca ggttcacgat aactcgcctg tgctttttct 120  
tccatgctat atgtagcaaa gtgattgatc cagtaatggt tgatgagttg gaaaatgagg 180  
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgctg tggctcctgt tatctacggt 300  
ggatgtaccc gggtgagcga tacatgaag 329

<210> 11147

<211> 334

<212> DNA

<213> Glycine max

<400> 11147

agctttttat ggaatttatg atatgaatcc agataaggta aagtaactgt tttttatgga 60  
cgattttcca ttaggccatg gaaaatctag catgatattc cattcttgat tttaaattac 120  
ttaccaaag aaacttgtgt actgatgtag gtccttcaat caatgattca aatgggtgtt 180  
cttggtccaa ctggagatat gactgctgtt aaacgaacag cacagttctt cctcaacagg 240

tagtttatca aatccattta gtggaatac ataaaacaat caaaacacct acatagattt 300  
agcagtagta tttctatata tcaatatcat taga 334

<210> 11148  
<211> 341  
<212> DNA  
<213> Glycine max

<400> 11148

tgtcacagtt ctgccatcac tgggtggtgac ttgaaaagag agggattgtc cattgaggta 60  
tgagttgctc tgccagtttt gccccagtt tcttgacatg ggctgccacc cagtttttga 120  
ccctttaatg gacactgaat tcacatcacc agctccagcc acattggtga tcaaaactag 180  
gttgaagtaa gagtggccat tgattgtgaa ccttattcct ccctttttca cacaaggaac 240  
cctgccatca tcaccaaag tttagtttag tactagttaa acatatgagc aattgaaaat 300  
taaatatccg agataaatta agtaatctca gtcgttaatg a 341

<210> 11149  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 11149

tcaacattca atttcgagca tctagatatg tgacagtgtt caatcagaca tccgagtaaa 60  
aagttattgt cgttcgaatt tgctcagagc atcaacattc aatttcgagc gtctcgatat 120  
atgacgggac tcaatcagac atccgagtaa aaagatattg tctgtctgaat tggctcagag 180  
cttcaacatt caatttcgag cgtctcgata tgttacggga ctgaatcaga catccgagta 240  
aaaagttatt gacgtttgaa tttgctcaga gcatcaacat tcaatttcga gcgtctcgat 300  
atgtgacggg actcaatcag acatccgagt aaaaag 336

<210> 11150  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 11150

agctttgagc caattaagac gacaatattt ttttactcgg atgactgatt gagtcccgtc 60



atatatcgag acgctcgaaa ttgaatggtg atgctctgag caaattcaaa cgacgataac 120  
 tttttactcg gatggctgat tcaatcccg t cacatatcga gaagctctaa attgaatggt 180  
 gaagctctct gccacttcaa acgacaacaa ctttttactc ggatgtctga ttgagccccg 240  
 cgacatatcg agacgctcga aattgaatgt tgaagctctg agccaattca agcgacaata 300  
 actttttact cggatgcctg attgagtccc gtcatatat 339

<210> 11151  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 11151

agctttttatc catggcttcc tatggtggtg agctttcttct tgactcatat tctccttgaa 60  
 gtggtgcctc taatcatctt tcttccttct tcattccact gccattaaac ttttagaagc 120  
 aaatgacttc atggatgaag aagatgcaag gcctacaagc ttcacatgga gctacatcat 180  
 gtggtatcaa gagcatcttc gtctaggtga tgttcttttg cttcctctat ttttttggtt 240  
 ggtcaattca ctttaattcc tttttcttca ttttattctc catgtatatc ctccattgtc 300  
 ttgtggtttg gtgctgttta gagtagat 328

<210> 11152  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 11152

agcttttaaaa ggtgtttttat ctctacaaaa atatatgttt ttgcactagt aatcgattac 60  
 catatattgt aatcaattac cagagacaga ttacataatt ttttttttaa aaaagttttc 120  
 ttttgaaatt tgaattttta atgttcta atcgattaccac ttgtatgtaa ttgattacca 180  
 gtgatgaaac ttcagaagtt aactttgaaa agtcatgacc cttcaaaaca taattgtgta 240  
 atcgattacc aagaatttgt aatcgattac tagtgagaga atttttgaaa aatattctga 300  
 aaagtcacat ctcttc 316

<210> 11153  
 <211> 326  
 <212> DNA

<213> Glycine max

<400> 11153

tttatgggat aatctcttca ttcgggggttg atgaaaaccc catggatcaa tgcataacc 60  
acaaagttag tgtgagcaaa atatgctatc ttgcttcata tgtagaagaa tatcttactt 120  
gcagccaatg atcgggggttt gctacatgaa gtgaaacaat ttctctctta taattttgac 180  
atgaaggata ttggcgatgc atcttatgtc atcggcatta agattcatag agatagaact 240  
ccaggatattt tgggtctatc acaggaaacc cttataacca aacttcagag agatttcgat 300  
gaaagattgt caccatgtgt tgctcc 326

<210> 11154

<211> 346

<212> DNA

<213> Glycine max

<400> 11154

tatgctgcaa acatctacaa tagacctcct ttacctcagc agcaaaatca gccacaacag 60  
aacaattatg acctctctag caacaggtac aatctcgggt ggaggaatca tcccaacctt 120  
agatggtcga atccttcaca atagcagtaa caacaacaac aacaacagca gcaacagcaa 180  
cagccccaga aacagcaaac agttgaggct cctccgcaac cttcccttga agaacttggt 240  
aggcaaatga ctatgcaaaa catgtagttt cagcaagaga ccagagcctt cattcagagc 300  
ttaactaatc agatgggaca attgtctaca cagttaaadc aacaac 346

<210> 11155

<211> 371

<212> DNA

<213> Glycine max

<400> 11155

agcttctcgt cagtgggtacc ttatgtttca tgggataatt tcttcatttg gttttgatga 60  
aaaccccatg gatcaatgca tataaccacaa ggtagtgagg agtaaaatat gctttcttgt 120  
tttatatgta gatgatattt tacttgcagc caatgatcgg ggtttgctac atgaggtgaa 180  
acaatttctc tctaagaatt ttgacatgaa ggatatgggt gatgcatctt atgtcatcgg 240  
cattaagatt catagagata gatctcgagg tattttgggt ctatcacagg aaacctatat 300

taacaaaatt ctagagagat ttcggatgaa agattgttca ccaagtgttg ctcccattgt 360  
gaaaggtgat a 371

<210> 11156  
<211> 271  
<212> DNA  
<213> Glycine max

<400> 11156

tcttgtttga tcttacattt tagagccaag gtttcaaaac atactcccta acaaaacgct 60  
caagtaggtg agtaaattaa tgatagggca gtgtatcgag ttttgcgcca ataagaccta 120  
tgttgtttgc accagcaagc catgccttgc atgaagaaag aagttgagta ttgcgaagga 180  
aaataaaggt ctttttaacc aggggctgga gtactcaatt ctttaacaag gtctttgttt 240  
ctcctgagac agaaagccga aaaccatttt c 271

<210> 11157  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 11157

agcttgaaag aaaactggat gcattgttta tcttggtaac ccagctggcc ttgaaccaga 60  
aatctgtacc tgttgcaagg gtttgtggtt tgtgctcttc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gttgctaata 180  
tttacaatag accttctcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240  
tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tggcttagcc 300  
ctcagcaaca acaacagcag cctgctcctt ccttccaaaa tgatgctggc ccaagcagac 360  
catacattcc tcca 374

<210> 11158  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 11158

tactcaagct ttcaatgaaa tgctggtcaa gggcgtaaga tgaaacgtga agacatattc 60

tgcaattatt tctggtttat ccaaggaggg gagagcagat gaagcttta agttgtatga 120  
 tgagatgatg agaatgggtc taatacctga tgacagagtt ttcgaggcac ttgttggtag 180  
 ccttcataaa cccagttctc atgctgccct gaaacaaaat gagtatgggg aactgaaaat 240  
 aaacacttct gatacctcga gcttgccaaa cactggtttg tcaatttcac acaggaaggt 300  
 ggtacatata tgataatctt gtccttgaag cccaagtaaa aaacc 345

<210> 11159  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 11159

agcttcctt tctttggcca atgctggact tgcttggcag tgatttcctt ggcaatttga 60  
 tgctcagaaa cagcaatata caccactcct tcagttgggtc tgcccaggta tttgttgatt 120  
 acagcagggg agaatttaac acattttcct ctgacaaaca ctttctgata ctcatcactc 180  
 tttctgtttg ttatgtcaga gggaatgttg acaatgaatt ctctgactag actttcatag 240  
 caatctccca acttgggtgac agttttcagc agtccagcag ccttgatgag gtccatgata 300  
 tccttgcaat ccaaggcatc tcttcccagt tctctttcta aggcaagtct gcgttgatat 360  
 acaaatttcc acctttc 377

<210> 11160  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 11160

agcttgtatg gataaagtct cacgattgtc atgtgctcat gcaacaattg ttagtcgtgg 60  
 ctatacgaag catcttgcca aacaaagtca ggttcacgat aactcgctg tgctttttct 120  
 tccatgctat atgtagcaaa gtgattgata cagtaatgtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 atcacttgat tgtgcatctg gtcagagaaa tcaaatgctg tggctcctgtt tatctacggt 300  
 ggatgtaccc cggtgagcga tacatgaaga tcttataagg gtatcaaaga atctat 356

<210> 11161

<211> 329  
<212> DNA  
<213> Glycine max

<400> 11161

cttaaaagga gccataccaa tactggcttg ttttctattg ttgtaagtga actcaatcaa 60  
tggcaaacaa tccatccagc taccttggtg ctctataata cacgcccga gtatatcctc 120  
taaagtctga atagttcggt cagtctgacc atttgtttga ggattattag ctgaactaag 180  
cttcagcttt gtccccaagg cttcatgtag acttgccaa aatcggaag agaacttgg 240  
atccctgtca gatacaatac tagaaagaat tccatgcaac cttactactt acttgatata 300  
caactacact agcttttcca ttctatacc 329

<210> 11162  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 11162

tacgctagct tcaaactcga aggtggagga ccatgaacca aaaacaattc atggggctcc 60  
gaaaaagggg ttgagaatgg ataattactc taagcaatca ctacgcatag ctccaaactc 120  
taaggtggag gacacattaa cgataacgct attcatgggg ctccgaaaag agcgagaatg 180  
gagaattgca ctacacaatc actacacata gtcctaaacg cgaacgcgga ggactcatta 240  
atgaaaacgc ttttcatggg gctctcaaca gattgataag tggataattg aactaat 297

<210> 11163  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 11163

agctttgata ttggtaagtt aatgcctcaa aacttctatt atatttcctg tttctgaagt 60  
acgttttttc tctaatacat ctctttttat aacattaatc tctttaatcc tctcatttgt 120  
actaattact ttatcttaca ttttcttcc ttttcttctc atctcctttt ctattaaaaa 180  
agttgcccga ttttgattta taaatgcaat ttctcttttc attttaccaa actttatata 240  
aagatatttt atttgattca ccaggacata tttgctgctg gaactgatac ttcagcatca 300

acactggagt gggctatggc agaaatgatg agaaatccaa gaggtaggga gaaagcacia 360  
gctgaattga 370

<210> 11164  
<211> 328  
<212> DNA  
<213> Glycine max  
  
<400> 11164

agcttgtaga tttctgtctt gtatctgttt aatcgattac aaccctctcg taatcgatta 60  
taaagttggt tttgatgtag ctccacgtgg agcttgtagg ccttggatct tcttcatcaa 120  
tggagtcatt tgcttcttga agatcaatag tagcggaatg gagaaggaag aaagatgatt 180  
ggagacgaga cttcaaggag aagatgagtc aagaacaagc tcatcaccat aggaaactga 240  
tggagcttg cttgtaaggc ttctatggag gctggatctt tgaacttcaa tgaggtcctt 300  
taatggtgat tttccaccat ggagatgc 328

<210> 11165  
<211> 346  
<212> DNA  
<213> Glycine max  
  
<400> 11165

tttaatcata tgtaacaaca ttcatccaat atatgatttt tctagatggt ggtccatgac 60  
catcataatt gattatggga ataaaaatgt caaaattatc tacaatttga aatttaattt 120  
tattgcttat taatagaaaa gacttttgtt aatgtcatgt gagaaccgaa ttaacatgct 180  
taaactatgt caatagttgt tagaggtaaa acttaattag gaaaaaaaca gataatttta 240  
atgaacattt tatgtgtcta tgattcaaga caatgaaaaa ataataatca tgaaaaattt 300  
acatatatta tgatagaaaa tgaaatgatt aaacaattta taatat 346

<210> 11166  
<211> 363  
<212> DNA  
<213> Glycine max  
  
<400> 11166

ctttatacaa tgggagactg ttcatattcaa gtgctcgaaa gaatcaatga caatgcttac 60

aaagttgagc tgcccgggtga gtataatggt agttccacct tcaatgtctc tgaattatct 120  
 ctttttgatg cagaaggaga atcccatttg aggacaaatc cttctcaaga aggagagaat 180  
 gatgaggaca tgaccaagag caagggcaag gatccacttg aaggacttgg aggacctatg 240  
 acaagggcta gagcaaggaa agccaaagaa gctcttcaac aagtgtggc catactatat 300  
 gaatacaagc ccaagtttta aggagaaaag tccaagggtg tgagttgatc atggcccaaa 360  
 tgg 363

<210> 11167  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 11167

agcttatagt tattggaggg agaatttaac aatccaaaat caattgtacc tttcaagtaa 60  
 cgaaaaattc tttttgcggc ttttagatga ggagaggtag gagcctccat aaagcgacac 120  
 acaactccca cgcacatatag aatatcgggc cttgtatttg ttagatacct taaactcccc 180  
 acaagactct tgaagatcgt ggagtctacc ttctctcctt catcaaactt tgataacttc 240  
 aagccacctt ccataggggt gttcacggga ttgcaatcaa gcatattaaa tttcttcaac 300  
 acttcttttg tgtacctttc ttgtgagaca aagataccat tctccgtttg cttcacttcc 360  
 attccaagt aatatg 376

<210> 11168  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 11168

agcttgtgcc ttttcacgtc tggattatta atgtagcata tagatccaaa gacccttatg 60  
 tgctttgttg atggcttctt ctcgttccaa gcttcaactg gagtcttgtc ttttacagac 120  
 ttagttggac atctgttgag tatgtaaaca acagtgtaga ctgcttttagc ccaaaatgtg 180  
 ttaggtattc ccttctcctt gagcatccat ctagccattt ccataactat gcgattcttt 240  
 ctctcggaca ctccattttg ttgaggagaa tatgcgactg taagttgtcg ctcaatgcct 300  
 tcacctcac aaaatctttc acactcgca gaggtgtact ctttgtcatg acacttctta 360

gtacttttat ccg

373

<210> 11169

<211> 341

<212> DNA

<213> Glycine max

<400> 11169

tctgttttca attacgagct tctcgatata ttacgggact caatcgggtca tccgagtaaa 60  
aagttattgt cgcttgatta ttctcagagc ttcagttttt aatttcgagc gtctcgatat 120  
actacgagac acaatcggac acccgagtaa aaagttattg tcatttgaat ttgctcaggc 180  
ttctgttttc aattaccagc gtttcgatat attacgcgac tcaatcggac atcccagtaa 240  
aaagttattg gcgtttgaat ttgctcaggc cttctgtttt caatttccag cgtcttgata 300  
tactacggga cacaattgga cacccgaggt aaaagttatt g 341

<210> 11170

<211> 344

<212> DNA

<213> Glycine max

<400> 11170

ttgagcaaat tctaacgaca ataacttttt tcttggtatgt tcgataaagt cacgtaatat 60  
atcgagtcgc tcgaaataga atccagaagg tgtgagaaaa ttctaacgtc aataactttt 120  
tactcggatg tccgattgag tcacgtaata tatcgagacg cccgaaattc aatacaaaaa 180  
ctctgagcaa attctaacga caataatttt ttacttggtat gtccaattga gtcgcgtaat 240  
atttcgagac gctcgaaatt gaatacataa gctgtgagca aattctaacg acaataactt 300  
tttacttgga tgttcgataa agtcacgtaa tatatccagt cgct 344

<210> 11171

<211> 375

<212> DNA

<213> Glycine max

<400> 11171

agcttaacaa aaggcatgcg aagtgtgtgg tattcctaga gcaattccct tatgttatca 60  
aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120



tttctatgct tgaacaaaa ttgaatggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240  
gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactaaaa 300  
atttgcttgt ttgtgaagca catgaagagg tttaatgggg ctatttgggg tccaaaagac 360  
tctagaaaca ttaca 375

<210> 11172  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11172

tgcttcatac cgnatattga tttctttaat ttgcacacca tgtgttcctt tccttcaact 60  
gagaatccca ttggttgatc catataaaca ttctcctcta aatttcatt aagaaaggca 120  
gttttcacat tcactgatg taactctaag tcataaaggg ctactgatgt catgataatc 180  
ctaaaagaat ccttttgtga gatcggtgaa aatgtctctt tataatcaat gacatctttc 240  
tgagtaaadc ccttaacaaa gccttgtaac gttcaaagtt gtcagagag tcacgtttaa 300  
tcatgaagac ccacttaca ccaactctct taataccctt tggc 344

<210> 11173  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 11173

tgcatacaag attctccttg cctggcactt tataaccttc tggttgggtc atatagatgt 60  
cttcctctaa atcccatgc aagaatgcag ttgtaacatc taactgctcc aagtgaagat 120  
tctctgcagc tactatgctc agaataactc tgatggtagt catctttaca actggagaga 180  
agatctctgt gaaatcaatc ccttgtttct gctgaaaccc tttcaccaca agtctcgctt 240  
tgtatcttct tctaccgaca gattcttctt ttagcctata gaccaccta ttctgtaatg 300  
cctgctttcc ttctggcaat ttagttaag accacgtctt attcttt 347

<210> 11174  
<211> 375

<212> DNA  
<213> Glycine max

<400> 11174

gcttcctcaa tcaccttatt gagaatttat atgccatgaa ggatatgtct gtctttgatg 60  
aaagttgtct gtctctcatc aataaggata gatataacat gcctcaattt gtttgctaata 120  
aacttggtcta tcaccttgta catacaacca atcaaggaga ttgggtctgta atcatcaaag 180  
gactgaggggt gttttacttt gggaattaga gccagaaagg aagcattact acctctaggg 240  
aagctgccat gcacatggaa ctcatccaca aatcttctga agtcagggtt caccactccc 300  
caaaattctt taataaaatt gaaattaaaa ccatcaggcc caggacattt gtccccacca 360  
cagctttctt gatct 375

<210> 11175  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 11175

tagcttcttc tgtcaactaa cgaagactgt ctctccgtta gtcggtaact catccacaac 60  
tattacctga gccgatccta tgagatattg agggatgctg ggtgggttcc ggtcaaaggt 120  
tatttcgaat ggagagatac tagttgcgaa gtgaattgag gtggtgtagg acattccgcc 180  
cacatcaaga attttcccca agtggttggg ttcgagtga caaaagcgca caagtactgc 240  
tccactactt aattgatgac ctgagtttgg ccatttgttt gaagatggta agccgaactc 300  
atgcgagtc acatgccact caaacgaaag agc 333

<210> 11176  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 11176

ctgcaatctt acatcatgag ccatgttttt tatcttgatt tggaatctgc tttggcaagt 60  
ttatatttta tagttgaatg gtcagtgtgc acaatgatct ttgatactac tataaatgat 120  
cataactttt tgaaggccta aaccactggg aacatatact tcttcactac tacacagttg 180  
atttgggctt catttagcat tttgttggca tagtaaata catgaaatat tccactcctt 240

ttttgttcta atactacttt taccacataa ttattcgcat cacacattaa gtcgagttct 300  
tgcccccgat tgggagccac tatagctgga gtggttacta gccttttttt c 351

<210> 11177  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 11177

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agcaactcag gattcaaaag atgtgacatg aaccattggt gatatgttaa gaaatatact 120  
aatagttatg ttatccttgt cgtgtatggt gatgacatgt tgattgcagg atctagtatg 180  
gtagaaatta acaggttgaa gcaacagttg gcagaaaact tttaaatgaa ggatccttgg 240  
ccaactaaac aaatccttgg tatgagaatt cttagaaaca tatcagaagg aattttgaag 300  
ctgtctcagg agaaatatat acacaagttg cttgaca 337

<210> 11178  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 11178

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tcattcatttt tcacacggat gtccgattcg ggcgcataat atgtcgagag gctcgaaatt 120  
gaacaacgga agctcttgag aaattcaact ggtataacct ttcacacgga tgttccaatt 180  
atgccaatta catattggga cgcttcgaac tgaacaacgg aagcttctga caaattcaaa 240  
tggtcataac ttttcactcg aatgttcaaa tcaggcggat cacctataga gacgcttgga 300  
aatgaacaac ggaagc 316

<210> 11179  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 11179

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ttgttcattt tgcagcgttt ctatatgtga tgcaccttaa tctaacatcc gtgtgaaaag 120  
 ttatgaccat ttgaatttct caagagcttt cgttggtcaa tttcgagtgt cttgatatgt 180  
 gattttccag aatcatacat tcgtgtgaaa agttatgacc atttgaattt ctcaagagct 240  
 tccgttggtc aatttcgagc ttctcgacat attatgcgcc cgaatcgac atccgtatga 300  
 aaagttataa ctatttgaat ttcgcgagag ttttcgacgt taatttcgag cgtatcgata 360  
 tataataagc ccgaatc 377

<210> 11180  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 11180  
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 attttggaa acttgccgct atctttgctc ttagatcctt ggcgaagatt ttgcctgacg 120  
 gtgacttggg aattgcatca atgaagaata ctcggtttat tcttttgtaa aacaccacct 180  
 gcacaattcc acaactcatt acattcctta ttttgtggct aagaaaggta cagtacacat 240  
 cataaacctg taaaaaacgc atattatata tgatagtgac ccagacattt ataattaggt 300  
 gggaagaagc ggtgtgggtc agttataaga taaaatgaga aattatattt atacgggggtg 360  
 aatgagat 368

<210> 11181  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 11181  
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 gatataatta tatcagtgga tcagtattca aatctgtttg acttgatata tattagcaaa 180  
 ttttttaaaa tataatataa ttatcataat ttaatcaagt tgatactcta aatttagaaa 240  
 ctaatatcaa catatgagat ttacactaca agaaaaatga cctatgccta tagacacttt 300  
 tgcctacatg tttaatctag tgtaggtaaa acctaaagaa tacttttacc taaaaatatt 360

tatcgtacg

369

<210> 11182  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 11182

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gcagaacaat catgacctct ccagcaacag atacaaccct ggatggagga atcacccctaa 120  
tctcagatgg tctagccctc agcaacaaca acagcaacct gctccttcct tacaaaatgc 180  
tgctggccca agcagaccat acattcctcc accaatccaa cagcagcaac aaccccagaa 240  
acagccaata gttaaggccc ctccacaacc ttccctcgaa taacttgtga ggcaaatgac 300  
tatgcagaac atgcagtttc aacaagagac cagagctgcc attcagagct tgactaatta 360  
gatgggacca tt 372

<210> 11183  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 11183

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ctggtttacg cagttgtttg ctcgagggcc tgccggattg gcttggttgcg tatgcggatc 120  
gccttgatg agccttcacg tgacaacaat ggtttcatgt tcatgtggtt ctttgccgat 180  
caattttccc taacatatat gctatggcga aggtgagaat catcaattat tgaaagaaca 240  
aaacttcctg aagaaattct aaagcataat ccataagaaa aaagagaata tttctcaaat 300  
ataattctcg aagttgaaag gagcgatgcc tgaggtcacg gtccctcttt ggccgtgggg 360  
atacattcct ttatacact 379

<210> 11184  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 11184

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tatattcacc aggaaaacat tggctctggaa ggaaattgct ttgttgtgat tcaaaagatc 120

cttccaccca agcataaaga ccttgggagt gtaaccattc cttgttcaat tggataaatc 180

actatgggaa aggctcttat tgatttggga gccattatta acttaatggt agtctccatg 240

tgcataaggt tgggagagtt ggagatcatg cccacttgaa tgattttaca acttgctgac 300

cgctccatta ccagaccata ttg 323

<210> 11185

<211> 209

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11185

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gtcaattcga gcgtctcgat atattatgcg ccataatccg acctgcgagt gagaattatg 120

accacttgaa ttctcgagag cttccggttg caatntcgag cgtctcgata tattatgtgc 180

ctgaatcggga cctccgagtt agaaggatg 209

<210> 11186

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11186

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atttccaata ccttttaacg aaacatgttc tgtnttataa atttatgaaa aatgggtaat 120

aatatatata tagctaattt ttacantaat agataagtat attttttagta tcttaattaa 180

tatcatatat aataatcgat actctataaa tggaagctat atctaataat ttatgctatt 240

aaaaatnaat cttatagact gactactata aaaagggat tgatctaaat aattaattta 300

cgttttaaata atgattatat catataattg atatctcata aaaattctat ataattaaaa 360

tgtaaat 367

<210> 11187  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11187  
  
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 gttaactgcc attctaaca attncataat aaaaaattaa catcatttga taatacaaac 120  
 atgcaatcaa tgggtgaaata tttcaataat agacttaagt taagtctagt tacatatata 180  
 cattaatctt gaagaaattt gtatcataac atctatccaa tgacaacaat attcataaaa 240  
 actataacat ttataattaa acctcatctt ttatagaaaa taccttatta tttatatacg 300  
 tgtctataac aataaagata aattattatt tcctgtgtta ataattgcaa acttactatt 360  
 atactatagt ctacacacac tatacc 386

<210> 11188  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11188  
  
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 gctctgctcg acttacataa aagtctgact tacgagccta tttaaaagct tgcttaaaga 120  
 cgtcttttat taattaatta ttttaaaacc tagtgaaata ctaactaaaa aaagaaactt 180  
 ataaaatttc gtataaataa tgtacaaatc taaaaataat tgataaacia aattatattg 240  
 aattcaagtc gttaaagcac aaagtatata aaaaaataa aaatagcata atat 294

<210> 11189  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11189  
  
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 aacggtgctg ttgttttcgc ttctgaaacc tgcgcgcttg acctaatga agcgacttat 120  
 gaaagggagg tttaccctgg tgaggttctt gtggtggata aaaacggtat tcagagtctc 180

tgccatcatgt ctcatcctca accaaaacaa tgcatttttg aacatattta ctttgcactt 240  
 cccaattcgg ttgtttttgg gaggtctgtg tatgagtcctc gta 283

<210> 11190  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 11190

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 cttcttctag tgagccatta agaaatgcag attttacatc catttgggtgt acttcccagc 120  
 aattgaagct agccattgct attacaagtt tcaactgttc caacctagca acaggggcaa 180  
 atacttcac ctaaaaccaga ccttgctttt gcaaaaatcc ctttgcaacc agtctggcct 240  
 tgaactttgt tacttctcct ctaggattca acttagtttt gtagaccat tttactgcta 300  
 tggctttctt tcctattagt agctttgtga gactccatgt cttgtttctc tcaataaacc 360  
 tcaactcttc ttccattgct tcaaccaat gtgagtgtt caaagc 406

<210> 11191  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 11191

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 caaaactttg ttttgtttta aaaaattatc cattaggaaa caattgtgtg taatatcgca 120  
 ttatttctac aatatgtcgt ttcaaagat ttctttataa ttataaagct gaagttttcc 180  
 gaccaagaa ttaaaggtct ccctagtga atatcatttt aacttacgaa ataatttggg 240  
 tcagtttatt tgttaaaaag tagagaccat tggtatctat aaaagatgaa ttgatgtaaa 300  
 taaaaagact aaattgatcg atttttttat tgtttaacaa caaaattggg aattttcatt 360  
 cttccacgga atatcaatct taaatcttgg aaggggccaaa ac 402

<210> 11192  
 <211> 421  
 <212> DNA  
 <213> Glycine max



<400> 11192

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ctcaaataaa gatttttggg ctacctgtcc gaccttcctt tgttaagcct gtccagccaa 120  
aggtatgtaa tattcttata gccattactt gaatttattc gcaaatttac ttacaattct 180  
ggaattggaa tacaacatga tgtgctatat atattattcc caaacaatg tcagtggatt 240  
gtttgaattt atgctgtagg atgaactaag gagagaatta ggaatggatg aggatcttcc 300  
tgctgtatta ttgatggggg gaggtgaagg tatggggccc attgatgcta ctgctctggc 360  
acttggagat tcattatatg acgagaatat tgtggctccc gtacgtcaga tccttgagat 420  
c 421

<210> 11193

<211> 424

<212> DNA

<213> Glycine max

<400> 11193

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cctttatcat ttcttttggg attttgttca tgaatgttca tatgttctaa agaatctgca 120  
atgtcatcta gcatattctt tcttgacaat atatcattac attcatcaaa ggtaacatga 180  
atggattcct caatattcat agttctctta ttatatatcc tatatgcttt gctttgtaat 240  
gaatatccaa gaaaaatgcc ttcacagat tttgcatcga attttcctag attatcttta 300  
ccattattaa gtacaaagca cttgcaacca aaaacatgtt gatgagagat attacgtttt 360  
ctatcattaa ataactcata tgggggtttt tttaaaatag gtcttatcaa agccctatac 420  
atga 424

<210> 11194

<211> 327

<212> DNA

<213> Glycine max

<400> 11194

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actcctttct tggaaaccat gtgcccgatg tactccactt gttgttgtgc gaaagaacat 120

ttggataatt tgagaacaaa atgattatcc aaaaggacct gaaaagcttg ttccacatgt 180  
gctacatgct cctcaattgt tgcgctgtag atcagtatat cgctgaagaa gacgatcatg 240  
aaacgacgaa ggaacggtct gaagatcatg ttcattgggtg cctgaaacga tgaggagca 300  
ttgcataaac caaaaggcgt taccttg 327

<210> 11195  
<211> 211  
<212> DNA  
<213> Glycine max

<400> 11195

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ggaatggaga aggagaaaga tgattggaga cgccacttca aggagaagat gagtttataa 120  
gaagctcacc accatgggaa gccatggata agaacttgaa tgtaggataa aattaatggg 180  
ggaagatgga gaaaaagaac accaaattta t 211

<210> 11196  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11196

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gtggccaaag atgcatggga gatcctgaaa atcactcatg aaggaaacct caaagtgaag 120  
atgtccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgcac tgccttggga 240  
gagaggataa cagatgaaaa gctgggtgaga aagatcctca gatccttgcc taagagattt 300  
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggt ctcttcaaac ctttgagcta ggactctcgg atagggtga aa 412

<210> 11197  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 11197

agcttgtagg gttaaagtct cacgattgtc acgtgttgat gcaacaattg ttagccgtgg 60  
ctatacgaga catcttgcca aacaaagtca ggtaggcat aactcacccg tgtttttctt 120  
ccatgccata tctagcaaag tcattgatct tatcaagttt gatgagctga aaaatgaggc 180  
cgcaattata ctgtgccagt tggagatgta tttccccct gctttctttg acatcatgat 240  
tcacttgatt gtgcatctgg tcagagaaat caaatgttgt ggtc 284

<210> 11198

<211> 284

<212> DNA

<213> Glycine max

<400> 11198

agcttgctaa cccatggttt tttcctaata tctcccacac tttttggggt tggccattct 60  
tggacggcct tgattttctc atgggtccaca tggacctcat ttctaccaac taciaaact 120  
aagaaaacta tattatctac acaaaaagta cacttctcta tattttcata gaggggtgtt 180  
ttcctaagaa ctgaaaaact tgcctgagat gtcataagtg atcatttagg ctctactgt 240  
tcagtaaaat atcatcaaaa taaacaacta caaatatacc tctg 284

<210> 11199

<211> 281

<212> DNA

<213> Glycine max

<400> 11199

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caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180  
atattcatag ctgcttccat cgagaattgg tggatgttcc actggtccgc cttctttctc 240  
catgttcac cagaatttatc tccctagatc tcactctgtg a 281

<210> 11200

<211> 391

<212> DNA

<213> Glycine max

<223>       unsure at all n locations  
<400>       11200

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tatattcacc atgaaaaaat tgtcgtggaa ggaaattgta atgttgtgat tcaaaagatc   120  
cttccacca agcataaaga ccttgggagt gtaactattc cttgttcaat tagagaagtc   180  
actgtgggaa aagctctgat tgacttggga gccagcatta atttaatgtc attctccatg   240  
tgagaaggt tgggagagtt ggagaccatg cccactaata tgactttaca actggttgac   300  
cgctccatta ccagaccata tggagtaatt aaagatgtgc tggtcagagt gaaacatttt   360  
accttcccga cagactttgt ggtaatggat a                                   391

<210>       11201  
<211>       286  
<212>       DNA  
<213>       Glycine max

<400>       11201  
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ttccttcgcg gattctcaaa attcccgata caattgtgga gggtgctgtt tgggtattcc   120  
tcacctacta tgggtattgga tttgacccaa atgttgggag gtaaagaaac tactttaaac   180  
atttaggagc atgcgaatgt tgttgcttct actaatttgc gtgttactta tgatgtgagc   240  
tcttgaattt tgtgcagggt cttcaagcag tacctcgtgc tattaa                   286

<210>       11202  
<211>       286  
<212>       DNA  
<213>       Glycine max

<400>       11202  
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cagtttccac tgagacaact cccaagctg aaggttttga tccttcaact tcaaccacta   120  
ccaagagtga tggtttggtg attccgaagg aattagctga gatcgagtac atggagagcc   180  
tttatatgaa gagtactgta tcagcattgc atgttttgca ggaaattaga agtggaagct   240  
caacagttag catgttttca ttgccaccgt tgaagataag tgggttc                   286

<210> 11203  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 11203

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catactcatt ctctccactt gattcttgtg ttgtctatct tatatgtcgc aaggcatgca 120  
tagtcaattt cacaattctc actcactaat ctttgaataa gttaaacata actaattcat 180  
ttaccaagct actccttact tgtacaacta ttggccattt ttgaggcaag aactttcatg 240  
attacaattc atacaatggc ctgagtactt catgcacact ctatagttgc atacaataac 300  
ttactcaact ctagaacata ggtgctacga tattgatatg ctgaaaatga cttgcgatac 360  
ttttatatca cttacatcta agtctatatg atctacaatc tgaca 405

<210> 11204  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 11204

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attatattac acttgtttat gtatgtgttt ttctcttgac ttaaataataa ttttggtcat 120  
tttattttac tcaatacgta attttggctct ctctatttta aaattaaaat atttgatact 180  
cctattttta aaaatctaca attttggctct ctctatttta aaatacaaac attttgtccc 240  
tatatttttag aaaattcata attttgattc tcatattata gaaaattcac aattttgggtt 300  
taatataata ttattcctat gttttatttc ttttattttt tactttgtag ttaattaaat 360  
catttcttga tgatatctta aatgaatatg tagatttagg atttaattag 410

<210> 11205  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11205

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 agaaagatgg aaccatgagg ttgtgtgttag actatcgcca gttgaataag gtgatgatca 180  
 agaacaagta ccatttgcct agaatagatg accatacgga ccaggtgata agaacttatg 240  
 tgttttagcaa gatagacctt aggtcaagtt accatcagat ccgagtgaag tctgaggata 300  
 tcctgaagac tgcctttagg acctgttatg gtcactatga gtatctagtc atgcctttca 360  
 gtgtgactaa tgccttgggt gtgtntatag attaccatgaa tagaatcttt cacccttate 420  
 ttgatagg 428

<210> 11206  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 11206  
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 gcaagttgaa agccttggag gaaagaggta tgcctatgtc gttgtggatg atttctccag 120  
 atttacctgg gtcaacttta tcagagaaaa atcagacacc cttgaagtat tcaaggagtt 180  
 gagtctgaga cttcaaagag aaaaagactg tgtcatcaag agaatcatga gtgaccatgg 240  
 cagagagttt gaaaacagca agtttactga atactgcaca tctgaaggca tcaactcatga 300  
 gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa acaggacttt 360  
 gcaagaagct gctaggggtca tgcttcatgc 390

<210> 11207  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<400> 11207  
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 tgcgggcgct ggggtgtttt cttcacggga ttgtttgcga ataaagtgtg cgtggaggag 120  
 atttacggtg ttggaaggcc gttcggggct ttgatgggtg gcggagggag gctgttggcg 180  
 gccacgtga tttaaatatt ggtggtgtgc ggggtgggtta ctgtgaccat ggtcc 235

<210> 11208

<211> 424  
 <212> DNA  
 <213> Glycine max

<400> 11208

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aatatatcga gtcgctcgaa attgaatacc gaagcgctga gcaaattcaa acgacaataa 120
ctttttactc ggatgtctga ttgagtcccg taatatatcg aaaagctcga aattgaatgt 180
tgaagctcta agcaaattca aacgacaaaa actttttact cggatgtctg attgagtccc 240
gtaatatatc gaaaagctcg aatgtgaatg tagaagctct gagcaaattc aaacaacaat 300
aactttctac tcggatgtct gattgagtcc cgtaatatat cgagatgctc gaaatggaat 360
accgaagctc ggagcaaatt caaacgacaa taactgttta ctcggatgtc tgattgagtc 420
ccgt 424
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<210> 11209  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 11209

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taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120
atatattacg ggactcaatc ggacatccga gtaaaaagtt attgttgttt gaatttgctc 180
agagcttcgg tattccattt cgagcatctc gatatattac gggactcaat cagacatccg 240
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<210> 11210  
 <211> 416  
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 <213> Glycine max

<400> 11210

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gttactatca ggccaaaaag atattgtgtc cgatgggtat gaagtatcag aagattcatg 120
cttgctgaa tgattgcata ttatacagac atgaatttca agaaatgcc aaatgcctta 180
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tcttctatatt tcagattggg aatgcctcta acagcacttt tgtcaaggat tttcttcatg 120  
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 gatagacatg tggaggagta gctggtttct tgggggtgtcc ataggtaaca attgtccttt 240  
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<210> 11214  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 11214

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 tgctagtaaa caacgtaaac tacattcttt aaattatatt gtttggactt actgtcttat 180  
 gaaatgttta ggtatctact gatatacttt gggttgatat atcaattcca atgttagtaa 240  
 acttcgtcat gatcacgtac ttttcagtaa tcagcatcct cattgtaaca tgccaaaatg 300  
 cttgggaaac ggtcttcctc ttaatacctc tgttatggct gaataactgg tatacgggat 360  
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<210> 11215  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 11215

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 aaaatatgtt ttctacatcg gttatttatg actttcaaca tcgggtttttc aaccgatgtt 180  
 gaaagtaccg acgttgatag tattatcggt aacatcgggt tttgaaaaac cgatgttaac 240  
 gtaaaattac caacatcgggt tatataaata accgatgttg ctaat 285

<210> 11216  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11216

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tacctcctcc tctttggctc aacaacttgt gatgaatcca cgtcgaggct ctactttggt 120  
ggtgccattt tgctcctcat ttccccacta tgtatccctg gaactatata tgctcgagat 180  
tggtttcacc atgccatcca ttccagcttt cggatggaag gttccggctt cattcttggt 240  
catgttgatg atcttgagct tcataaggaa ctccctcacat gtcaaaacag cgctctaagt 300  
ctcagtaatg gggacagtca tggcctgctg agtgagaatg gatccattta tgtaattagt 360  
tagagtgcaa aatctagtga tntgtgttgt gacaagatgt ttgg 404

<210> 11217  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11217

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tctatatctt gaaacgttaa atctagaagg atgtacacaa ctcaggaaga tagatccatt 120  
cattggtctt ctaagaaagc ttacaatttt aaatttaaaa gattgcaaaa atctagtaag 180  
cttaccacgc agcatactgg gtctcaattc tcttgaatac ctaagtcttt ctggctgtta 240  
aaaaatgtac aatatacagt tatttgatga accaagggat gatgagattt cggagaagct 300  
ttgtataggt gaagctccta ctcaatccca atcaacatcc tccattttga aaagggttgtt 360  
nttcaggcct ttacatttgg tgtatgc 387

<210> 11218  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 11218

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ggtcggagat gcatgggtca tccagagaac cactcacgaa ggaacctcca atgcgaagaa 120  
gtcctgattt catctgtcgc ctacaaaagc ctacaatctt aaaatgaaag aagagcgaat 180

gtttaatgac ttacacctg aacattcttg agattgccta cgcttgact gcctagcgac 240  
aaagaatgac aaatgaaaag ctggt 265

<210> 11219  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 11219

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accttcctcc aggccaaatc attcaaggaa agttacagat cttcctcttg tgctgctgat 120  
cttctatgag ggttcagggg ggcctttcgg ggtggaggat actgtgcacg cagcagggtcc 180  
tctgttagcc ctcatggat tcttgctttt cccattgata tggagtgtc ctgaagcttt 240  
gatcactgct gagatgggta ccatgttccc tgaaaacagt ggtta 285

<210> 11220  
<211> 279  
<212> DNA  
<213> Glycine max

<400> 11220

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cggtatgaaa atagtgcatt gatgcaaagg tttgtcactt gttcccgaac aagtgggagt 120  
ggctttgacg gaatctcact agcagctgca agaaaaaaaa aaatggtaaa attcctacac 180  
ccaaaaatta tacctataaa caccatttaa aatattaaca gaatgacacc accatgggaa 240  
catttaaaat aaataaagcc aacaaaattt aatatagag 279

<210> 11221  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 11221

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atatttattg tcatgtccct cttgaggatt gtttcaagga cttcactatc tattgcctgt 120  
aaaaggtaat tctttacctt taagtccttc aacttctgct cctcgatcaa tttgcattgt 180

gcctccgtaa gctctattcc atctgccacc atcaatatcc cattctcaat gagatcccaa 240  
tattcttttg agcagagaaa attctccatc aacattgccc aatgatcata atgaccatta 300  
aaccttgga ttgcaggctg ca 322

<210> 11222  
<211> 269  
<212> DNA  
<213> Glycine max

<400> 11222

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ctcaggctag atgggctatg agaaatgctt cagtaatatg ggtgaagatt taccatagaa 120  
tacgcgga gctgtagatg acctttgctc agagtctagt gaataaagtg cttcttgtgc 180  
caatgcaaca ttttaaggtgt gatgggaacg acagccagac tattatttga gacactggag 240  
aacatgaatg ctttgactag gatgttcaa 269

<210> 11223  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 11223

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cattatcaat ttcactatca aagctaccag accttttcaa tgcggggcca atgctatctg 120  
gtcgatttga aggcagaggc catgaaattt acctcaacta tatatcaaat gatatacacc 180  
tcatatgccg cttggggcta taatctacac ataaaggaac aactaaaaat ctattgagga 240  
acaggtagag aaactaaagc caccaataag tgtaaaatgc tcacat 286

<210> 11224  
<211> 315  
<212> DNA  
<213> Glycine max

<400> 11224

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cccgacgact aaactgataa ataattatcc ttggcttctc ggacaaagtt tggcacgctg 120

ggggcaagat taatcttatt acaatgagac cttggatgcc atcgtgatct tatacccggtg 180  
 agaggttgat cttgacgggt cggaagcca tccttcgcct tgccttgaat gtaaggagc 240  
 gtcccaatca cactgtcacc aacatttgtg tccacatgca taacattaat acactgtcta 300  
 acgtcaagat ctcac 315

<210> 11225  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 11225

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 atatttccta atatttcatg atttgtttcc atattgacta ttagtataaa taaggattag 180  
 tgctttatgt tttagtcata ctataacaca tcatatcaaa taaagtcaac atcaataatc 240  
 tcactgtatt cagtttctta attcctattc ctctctctct atacctaaat ccatatagtt 300  
 ttaacacacg taatgtatca gttcacacta gcataaattt aaaaacaaaa tccaaatgat 360  
 gatcataagt ggcgcacatg ga 382

<210> 11226  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 11226

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 tgtaatcaat tactagaaga taagtttgaa aaatagctgt ttaaaagggg tttgaatttg 120  
 aaaattgaac ctataatcga ttgccagatg tgtgtaatcg attaccagca acgatactct 180  
 ttaaattcaa attcaaaagt catgaccctt caaaatataa ctgtgtaatc gattaccaga 240  
 aacctgtaat cgattactag tgaagaaatt cagaaaaagc tttttgaaaa gacacatctc 300  
 ttcaaaccat tttgaaaagg cacgaagggc ctatatatat gtgtgtgtct gacttcaaaa 360  
 agcaagagag aga 373

<210> 11227

<211> 327  
 <212> DNA  
 <213> Glycine max

<400> 11227

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 agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120  
 gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180  
 cttgaacgac cccgaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240  
 acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300  
 aaccgagctt tgacaacatc aactaat 327

<210> 11228  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 11228

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 aataacaaat aagtcataag tcatcaaaac ataaatcatt tgtctaagtc acttgcatct 120  
 agaagtccta attctcttct aatgggtgtag aaagaatctt tggttagtggt ttttgtgaag 180  
 atgtctgcaa gttgggtttt agtatctaca aattttttaa acacaatcac ctttttccta 240  
 agactaagtg ctaattgact atcaacactt accaagataa gtttttatta acatagaagg 300  
 ttttatcata tcaaaataat tttatttgaa ataaaatata ataattttga aaagcataaa 360  
 aaatatttta aacaatcaat caagt 385

<210> 11229  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 11229

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 tcttctatht tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac cttcttggag 180

gatagacatg tagaggagta gctgggtttct tgggggtgtcc ataggtaaca attgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
gtgaagttta cattgaatcc tt 322

<210> 11230  
<211> 305  
<212> DNA  
<213> Glycine max

<400> 11230

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ggctgagctt gacctctcaa caaacaagct cactggattg gtgcctaaat ctctatgcct 120  
tgggaggagg ctcacgattt tgatcctgct caacaatttt ctctttggat ctttgctgc 180  
tgatcttga caatgctaca cactccaaag agttcggtcg ggacagaact acttgacagg 240  
atcaattcca aatgggttacc ttacttgcc tgagtaggcc cttttggaat tgcagaacaa 300  
ttacc 305

<210> 11231  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 11231

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tcttgtatgt gatagtagat gggctaatg tgtcaataac ttcttaattc gggcaaaaat 120  
ctaatacagc gaaatttaga tgctttatta ttaattcagc tagatctaata accttcttga 180  
ccctggctct gcaggtcacg tgcattgac ctgcttgat taggtgccaa gaaatctttt 240  
taagtggtg tactgcaaaa ttgcttgct acacattaag agcttgtcta ggagcgattt 300  
aatgacttgc tcgggc 316

<210> 11232  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11232

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 atacaataca catgtcaatc acacaaaaat ttagataaca catgttatat ggtgcttcat 120  
 aaatatttgg tttgattaca aagcataatt aaaatgatta gatttatcat tttatatacc 180  
 tgaaatatta atttttgtaa ccaatctgaa cttttatgca atttatacat gtatttcaac 240  
 ctttgaaagc tactctacac gtgtaatccg aacctatgat cgaattatca tatttattta 300  
 aaatgatttg cagaataaat tttatgttga ttagttnttt tttccaatgc ctatatttat 360  
 cgattgggtt aaat 374

<210> 11233  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 11233  
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 ctctcccaag tactgctgga ggcaccatca agaagcacia ggttgccagt gtcattgaac 120  
 acaccactag aaactctagc agtgaagcca ccagtgttcc ataacttacc accatttggg 180  
 gcagtgagaa ccaacccatc atcagcagaa agtcaactt ttgagccctt tgggtgcaggc 240  
 ttgttgctcc tattggcaaa ccaaactatg gttctgtctt gaatgttggc ataccaaag 300  
 caaagtatga aatgatcag 319

<210> 11234  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11234

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 aatatttgct tctttttctc ttctgaacac ctctgctagc aaatctgcag aatgtgaaat 180  
 aattttagtt aaaacttgat ttttcatatg aattttgggt cgatttccaa attgcagctc 240  
 tgtgggctaa ccataaggag gcccaactcc ttggactcat gctgagaagg ccagggtttc 300



tctgactgtc atttctccaa tatgaagatc attntgactt acaaactcat tcatcccatg 360  
accattataa gtcacctt 378

<210> 11235  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 11235

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tctgaagata tttggctgcc tttgtttctc ttacatacct caagtaaaga gagacaaact 120  
tgacaagaaa gcagaaccta gaatttttgt aggttatagc tcaacttcaa aggcctacag 180  
aatctaccta ccacaaagca acaaagtaat tgtcagaagg gatgtcaaat tcatgagtc 240  
agatagttgg gactggaaaa atgataagag gtctgagttt caagaggaga atgaagatgt 300  
agatgaagaa cccatgagag ga 322

<210> 11236  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11236

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cagaaactat gctagaaaga acaccgggta atctaactat ctactgacg tacaagctag 120  
tcaacctctc taaagaatat ctgatgttta ttgggatgaa gagagcagat ttggtcaacc 180  
tgtctacaat aacccaaatg gaatctaaac ctttgggggt cctaggtaac cccactacga 240  
aatccatgga gatgctatcc cacttccact caagtatctc taaagggtgc aacttccctg 300  
aaggcttctg gtgttctatc ttagctttct gacacactan gcatgcaagg acaaactcat 360  
taacttcttt cttca 375

<210> 11237  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 11237

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cattgccaat gcagttcatg gtatggaagt tggggagttt gctacattta tggcacttgg 120  
tttgcacttc gtggtcttgc agcggcgagt aaaacttaca ctaattgtgc tgccattcgc 180  
aaaaccatta aatttctact ttcaacactg aaagaggatg gtaggtgggg agaaagctat 240  
ctttcatgcc caaaacaggt ttgtcattga atggatcatg taaacaggat actatatggt 300  
ttattaaact gtattaaata t 321

<210> 11238  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 11238

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aagttcttca aggggaagggt gtggaggggc ctcaactggt tgctatttct gaggatgttg 120  
ctgttggtgc tgctggattg gtggaggaac gtatagtctg cttggggccag cagcattttg 180  
aaaataaggc tgttggttgtt gctgctgctg ttgtgaagga ttcgatcatc taaggttggg 240  
atgattcctc catctgggat tgtacctatt gctggagagg tcataattat tctgttggtg 300  
ctgattttgc tattgaagtt gaggaggttt gttgtagatg tttgcagcat aagcttcagg 360  
ctattcaatt gcttcagatt g 381

<210> 11239  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 11239

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aatggaaggc atgttttttt ttaagatagc cctttaattc gtataacgtg agattaatat 120  
gattcttctt catttaatat tgcagtcatt gccagtgttc atatttgcaa atcaagctgg 180  
ccttgacatg ttggaaacaa ccctagttgc cttacaagat atcacattgg ataaaatatt 240  
tgatgaggct ggacgcaagg cattgtgtac agactttgcc aagttaatgg agcaggtaat 300  
aataacttct agtgatcaca aaattttcaa gttacaacta cattgtcatt ttgaaaattg 360

ctgaattggtt ttctgc

376

<210> 11240  
<211> 299  
<212> DNA  
<213> Glycine max

<400> 11240

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tgtcctattc tgggacataa ctcatcttta cgctcgaaat tgagcaacgc aagctctcga 120  
gaaattcgaa tggtcataac atttcgcaca aatgtccaat tctgggacat aatatatcaa 180  
gacgctcgaa attgaatatc ggaagctctc gggaaattca aatgggcata acttttcaca 240  
tggatgtccg atttgggaaa ataatatatt tatatgctcc agattgaaca acgaaagct 299

<210> 11241  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 11241

agcttggttc ataaccacct gttttatatt atccatttac agtctataaa aacttcagga 60  
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ttcagcatca tggcacacat agagttgctt tcttggttgc tccagttggt gcaacatggc 180  
ttttgtgtat tagcagtatt ggtatataca acatattcca ctggaaccca aaagtatacc 240  
gtgcactttc tccaatctac atggcgaagt tcatcaaaac aactgggatt gaaggatggt 300  
tgtcattagg aggagtgggtg ctt 323

<210> 11242  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 11242

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tcctttcaca agctgaagca ctataagttt ggcttaaaac acgaatagcc aatttttgca 120  
attatggaac actacatoca taacaatccc accattgatc taggatacaa catataaaga 180

aataaatcaa tataatgaat atattatgac tcgctaaaat aaatcacaaa tcagtaatgt 240  
tatcaaagta tcaaacacta aatttacctg gcatgactat gttccgttca catattgcag 300  
ctcgtcatgc aaaatatacct t 321

<210> 11243  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 11243

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gtgaaatttt aacgtattat aacaaattta atataataat aatactaaca atgaatattt 120  
attccttttaa aaaaacattg agtattaatt tatgatttat taaataaaact agcctcttga 180  
atgacctaag acctaatttg tttaactaaa taggttttaa taaaaccttt tatttggtct 240  
aatttgagtc tgatgtaaaa taatgacgat tctgtaaaat aaaataaaat tactatgcac 300  
ttttatatag acagcacatc cgta 324

<210> 11244  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 11244

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gtatttaciaa tcctacaaaa agaactgcaa cttggaggaa ttctatataa ttatcaaaaag 180  
tttctataca aaagtttgtc gtataaaatg actaacacca aaccatagct aaaattcact 240  
aatcataatt agtgaaattt tggctccata aattcaagtg aaatttgaat agaaattcaa 300  
atttcctcc aattttttgt gacacttagg ctataaatag aggtcatgtg tgtgcatttt 360  
tcaactttga taatttgaga 380

<210> 11245  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 11245

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cctcttccat ttttttggtg gaaactgctc ttggagggaa tggaagagga gggatgtgtt 180  
gcttctgcaa atcagaatta ccagtgaag attcacctgc acataaattg ttaggtaaat 240  
ttttgtcatt acctttttct gggtagagt gaagttgggc aggttcattt gcagatgagg 300  
aaggtgctac gggtagagt ccttgacact gctttccga cctcaatgaa atggcactga 360  
catttttggg atttt 375

<210> 11246

<211> 360

<212> DNA

<213> Glycine max

<400> 11246

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accggttctt atcgccaaat gttaaagtgt aattgtcagt agtgagatgt gaactcacga 120  
cctcatctca ctcccttata actcttgctc atattgatat tgatatctta attggtaatg 180  
cggctcttggtg tgctggaatt gcaactggag aaattcatca ctacacaggt tccattctca 240  
gagattaaca aggccttttga ttacatgctg taaggggagt ccatcagatg catccttcga 300  
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<210> 11247

<211> 319

<212> DNA

<213> Glycine max

<400> 11247

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gttcgaagac aaccttcttt ctcccttctg ttgcttgttt agcatagctt ttatttttcc 120  
tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180  
cttctttatg cttaaaaaca gaaacattat gcataggcaa aagatcaaga ggagttagt 240  
ggttaaaacc ataaacatct tccaaaggag aacaattagt ggcgctttga acagctctat 300

tgtaagcaaa ttcaacatg

319

<210> 11248

<211> 374

<212> DNA

<213> Glycine max

<400> 11248

ctgtcaagct cagagcagag attagttgct gttttaagtg cagagaaatt cactacaacc 60

caggtgattg ggtggtgctc agattgagac caccgacgtca aacatcggcg aagggttctc 120

tgacgagttc tgggaaatta gccaaacgat attatgggcc attccagggt atagaacggg 180

tcggagaagt tgcttaccgt ctccagctac cggcagagga aaaaattcat tcagtgttcc 240

actgttcttg tcttaaacca tttcacagggt caccggagca gggtgacaca tcgcctttac 300

cacagcaatt cgtgggagat caacccatgg ttactccttt agctatcctg gattatagac 360

gctctccggt agac 374

<210> 11249

<211> 319

<212> DNA

<213> Glycine max

<400> 11249

agcttaaata ggaatctttc tttgggggga cttattattt taaaaaaatg cataagtata 60

taattgtttt acttggttatt tcagttttct tgtataaact tctaagctat ttttaaaatt 120

ttaagattat aaatgtttta aatttattct gtttcttaat gttaatcatg atcaactatt 180

acttaaagtg aaagcatttt ttaaataaat ttaatctttg cctacaatca taagctagaa 240

gtttaaaaat gttattaaaa aacatcaaat ttactccaaa gataattaga gaagcaattt 300

gttgcaaaaa tcatatatt 319

<210> 11250

<211> 305

<212> DNA

<213> Glycine max

<400> 11250

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tctcgatagc ttgcgttggt caatttcgag cgtctctata ttttatgcgc ttgaatcgga 120  
 ccttcgagtg aaaagttagg accctttgaa tttctcagaa gcatccacta tacaatctct 180  
 accggctcga tttcttatac gcctgaattg gacctacgag tgaaaagttg tgaccatgtg 240  
 aatttctcga gagatacagg tgtaaacta ctagcgtgat gatattctat gtgctttgct 300  
 ctgac 305

<210> 11251  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 11251

ggacatctat gaaactcagc tttcaggttc tatccctcct tccctgtgaa actgtttaat 60  
 gcttcagtcc ctggatatta gcaacaattc cctcagtggt aaaatccctc ctagtttagc 120  
 aagatcttct aggatattca ggatcaattt gagcttcaac tcactttccg gatccattcc 180  
 tagtagtctc actatgtctc cttctctaac cattcttgca cttcaacaca acaatctctc 240  
 tggttttatc ccagattctt ggggtggaac tggaaagaag aaagcttccc agcttcaagt 300  
 tttgaccctt gatcacaatc ttatttctgg aaccattcct gtttctctag ggaagcttgc 360  
 tttgcttgaa aatgtttctt tgagtcataa ccagatt 397

<210> 11252  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 11252

agcttgtaa aatgacctta ttttattcct ccattaactg taaaaactcc aataaacctt 60  
 gtgacacttg tcattttgcc aaacaaaaga ggctaccttt tcctgatagc attattgttt 120  
 cttctcagag gtttgatttg ctgcacatgg atatctgggg cccttatgct tatccttcat 180  
 tacttgggca caaatatctt cttactattg ctgatgataa aagtagatat acatggatca 240  
 tttttctaaa actaaaatca aaagttgcaa atcatatcaa acaatttgta tctatgattg 300  
 aaactcattt ttctg 315

<210> 11253  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11253

tcttatccaa ggtaattctt ggtggtgaag ctcttcttc cttgtcttat tccatagtgg 60  
 atggtgectc ccctctctc ttctcctttg ccttccgctg catctccagg gtgtaaaatc 120  
 accattaaag gacctcattg aagctcaaag atccagcctc catagaagct ctacaagcaa 180  
 gcttccatca caatatatat aaattatcat ccgggaaatc atcccgaatg ggtaagtcct 240  
 catcagacac atgttcgatc cgactcaaat gatcagcaac taaattttat gctctgctcc 300  
 tatcacggat ctccaagtca aattcttggg gccaaagcat ccatcagatc aacctaggct 360  
 ntgaatcagc cttctgc 377

<210> 11254  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11254

tctaaactnt gtacaagaat gaagctctga tacctcttgt tgaacaagtg gcctcagata 60  
 tctcaagaat gggagggtga attaagatat cacacactat tccgccattg gaaattctac 120  
 tttgattgta acccacgtcc cagattcct tttaaaatga attcttatat aataattcaa 180  
 attaaactta ttgaatagaa acagtaagca acatgacata atagagttaa aggaagaga 240  
 aattgcttac acagttttta tactatgacg gcaaagtccg atgcctacgg ccaatcccca 300

<210> 11255  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 11255

agcttgcttc cttgctttct ttttttggtt ccttgcttcc tttgcatctt tggttatctg 60  
 ctgcttgcaa cttcttggtg agtttatatt aattgataat aaatccgatg catgtttaag 120  
 ttataaattc taagtgttat gagttaaata tgttttaggtt aactgtgttt tatatgttaa 180



tggtatatat gtataagtgc tatttataaa ttttaagttg ccatttgaaa tattgatatt 240  
 atttatattg tatgtatatg ttataatttt agatagtggg tacagatttg tattata 297

<210> 11256  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 11256

agcttgaagg ttactatat gtattggtta acctggtaac ctaactggcc atgaataaaa 60  
 aatctgcacc tgtcgccaga cttcgtggtt tatgctcctc tgtcgaccac cacacagacc 120  
 tttgcccttc tatgcaacaa tctaaagcaa ttgaacagcc tgaagcttat cctgcaaaca 180  
 tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240  
 tttctagcaa caggtacaat cccaggtgga ggaatcatcc caaccttaga tggttgagtc 300  
 ttccacaata gcagcaac 318

<210> 11257  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<400> 11257

gttgtcattt gtgttccttt atgaatggca caatattagt ggttgtgcag atgtttctca 60  
 acgtggaagg gaaaatggaa actttgactc tagtgctaga gtttatcata aagtcactcc 120  
 caagaaatta ggggcttttg gttccaatga aggagctgct taccatctgg gattgcatca 180  
 caaacagcta tatgtgtact gtctggtaca agtgttctaa atgctagacc acgtagtgtc 240  
 acttcgtctg gactac 256

<210> 11258  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11258

tcatgatgaa tcaagaatga ttcaaagatg tnttgattct attatatatg atgacaaagg 60

tgatgacaaa aagctcaaag gtcaatcaaa gaatgagttc aagatgttca agaaagaatc 120  
 aagaacactt caagattcaa gaggaaggtt gatttcaaga atcaagactc aagattcaag 180  
 aatcaagaga agacttaatc aagataagta tgaaaagggtt ttttcaaaaa ctgagtagca 240  
 catggatttt tctaaaaaaa tgtttaccaa agagttttta ctctctagta atcgattacc 300  
 agattattgt aatcgattac tagtagcaaa atggatttga aaaagttttc aactgaattt 360  
 acaacgttcc aattgatttc aaaaagctgt aatcgattac aatgttttgg taatcgatta 420  
 ccagtgcctt tgaacgttga aat 443

<210> 11259  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 11259  
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 gctcaaagaa aagcttacta aggcacctgt tctagctctt cctgactttt tctaaaactt 120  
 tgagctagaa tgtgatgcct ctggagtgcg agttggagct gtattgttac aagggtgggca 180  
 ccctattgct tatttttagtg aaaaacttca tagtgccacc ctcaactacc ccacctatga 240  
 taaagagctt tatgccttaa taagagccct ccaaacttgg gaacattacc tctgttccaa 300  
 ggaatttgct att 313

<210> 11260  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11260

tctggtggga catcttgact tgctttccaa tttgacatcn cttcacagat tctgccttct 60  
 tctattttca gattgggaat gcctctaaca gcacctttgt caatgatttt cttcatgcct 120  
 ctttaagtga gatgtccaaa cctttgatgc catattctga cttcatcctc tttggaggat 180  
 agacatgtgg aggagtaact gggttcttga ggtgtccata ggtaacagtt gtcctttgat 240  
 ctgctgccct tcaatagaac ttactcttc tcatttgtca ccaagcattc tgacttttgtg 300  
 aagtttacat tgaatccttc atcacacagc tgactgatgc tgatcaagtt ggcagtcagt 360

cccttcacca gcagtacttt gtccagacta ggaagtccat catggactag ctttcccatt 420  
ccagtgatct ttcctttaga gccatacttc aatgtcacat a 461

<210> 11261  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11261

tgcagactaa gtgctcacta acacntagaa ataatccttc tttttgtacc acgnaaacct 60  
cttcttctag atcaccattc aggaacgtcg atttcacatc tatttgatgc aactcaagat 120  
caaaatgagc tactaatgcc aaaattactc gaagagagtc tttcttagat acaggggaaa 180  
aggtctctct gtaatcgact cttctctctc gagtgaatcc tttagcaaca aatcttgctc 240  
tatgtctctc aatgatgcct tctgagtctn tctttgcttt gaagacccat ctacatccga 300  
tggctgttac accatgagga aactcaacga gatcccaaac ttggtttagat gccatggaat 360  
ccattctatt cctcataggc atataccaca 390

<210> 11262  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 11262

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cttttgcaga caggaataga gccagcattt gtcttatttt ttgattgcc tgacgaagac 120  
atggagacgc gacttcttag tatgaaccag tgtggatgag tttctctttt taataatctg 180  
tatttacttg tgctactcat cacttgagac tttttgtcc atcataatta agggttctga 240  
ggatgacgct cttgctacag attggaagcg gtttaagggt ttctcggaga ctagtcttcc 300  
cgtgatcaat tattatgatg ccatgggaaa agttctctag cgtactgatg catgtgattc 360  
taccatgttg atcacatat 379

<210> 11263  
<211> 376  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11263

ctgacattca ccacagattc tgccttcttc tattntcaga ttgggaatgc ctctaacagc 60  
acctttgtca atgattntct tcatgcctct taagtgcaga tgtccaaatc tttgatgcca 120  
tattttgact tcatcttctt tggaggatag acatgtggag gagtaactgg tttcttgagg 180  
tgtccatagg taacagttgt cctttgatct gctgcccttc attagaactt cactcttctc 240  
atttgtcacc aagcattctg actntgtgaa gtttacattg aatccttcat cacacaactg 300  
actgatgctg atcaagtttg cagtcagtcc cttcaccagc agtactttgt tcagactang 360  
aangtcatca tggact 376

<210> 11264

<211> 251

<212> DNA

<213> Glycine max

<400> 11264

ctatgctgca aacatctaca acagacctcc ttattctttg cttgcaaatc agccacaata 60  
gaataattat gaccctttca gccacaggta caatcccgaa tggaggaatc attccaacct 120  
tagatgggtg aatctttcac aacagcagta gcaacaacaa caaccttatt ttcaaatgc 180  
tgctggccca agcagaccat actttccttc accaatccag cagcaacaac aacaacagcc 240  
ccagaaacag c 251

<210> 11265

<211> 416

<212> DNA

<213> Glycine max

<400> 11265

tcaagaaaat gatggcctca gcaaattcct tttttttgtg cataaccata gaaaaaccta 60  
gagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gacaaaaaca 120  
taataacatc tgccctagga atggatgaat atttcagggg ttcaaattgt aagagtgcta 180  
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaagatctag 240  
gataaatgca ctaactcatg agtatgaatt atttagaatg aatgcaaatg aaaatattca 300

gagtatgcaa aagagattta cacatatagt aaatcatcta gcagccttat gcaaagaatt 360  
tcaaaatgag gatcttataa acaagggtgtt aagatgttta agtagagaat ggcaac 416

<210> 11266  
<211> 449  
<212> DNA  
<213> Glycine max  
  
<400> 11266

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tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc cttagaaga 120  
ttcctaaaga tgcttgagct tagctacaca tacctctcta atagctaagc tcacctcctt 180  
gagatgagaa gctagagctt agctacacac cccctataat agctaagctc acccctatga 240  
caaaaaacat gaaaatacaa aaaaaaaaaag tccttactac aaagactact caaaatgccc 300  
cgaaatacaa ggctaaaacc ctatactact agaatggcca aaatacaagg cccagacaaa 360  
ggaaataact attctaatat ttacaaagat aagcgggctc atacttagtc catgggctag 420  
aaatctaccc taaggctcat gagaaccct 449

<210> 11267  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11267

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cttaggacct gaagtggtag agcaactgcc gagaaggtag agttgatcca agaaaggatg 120  
aggactgctc agagtagaca gaanagttat caggataaaa ggaggaaaga cttggaattc 180  
gaggttgatg atcatgtatt cttgagagtc actccgtgga ctgggggttg tgcagcattg 240  
aaatcccgaa aactcacacc tcgttatatc ggtcctttcc aaattcttaa aagagtcggt 300  
cctgtggcat accaaattgc attaccccca tcactttcta atcttcacaa tgtctttcat 360  
gtgtctcaac tccgtaagta tatccatgat ccatctcatg ntgatcaaat ggatgacgta 420  
caagtaaaag agaacttaac atatgaaaca 450

<210> 11268  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 11268

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 ggagaggttaa tcgaaaaatt aatgatgcat ctttgtttct gatcagtcca tgcacggac 120  
 ataatagtac aaccatactt gacccattgc tccctatggc ctttcatcaa attttcagta 180  
 tattcaactt ctttcttcaa gagtggaaact ctgatgtcat gatagctagg aatgggcaaa 240  
 tgtggcccat attgaccaat ggctgcaacc atgttctcaa agcttttcaa tttaatgagg 300  
 ttgaatgaaa aacctgcttg gtaccaaag cgagcaatat gtagatgcac cttcaatact 360  
 tcattcttat ccattgactc tcttatgttc atttgctca gcatctccat ttttctccga 420  
 ttgattgcat tatctggatt cttacaaaat ttgt 454

<210> 11269  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11269

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 attntgaaga agtccttgat gaacctccga tagaagcctg tgtgtccgag gaaactcctg 120  
 atacccttag catttactag tgggtgtaac ttctcaatga cgtctatttc ggttttgtcc 180  
 acctcaatcc cttgggtgaa accttatggc ctaatattat cccttctctg accatgaatt 240  
 gacacttctt ccagttcaac accaattttg ctttaacaca tcttcgcaac atgagcttta 300  
 gattggtcga gcatcagtc aag 323

<210> 11270  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11270

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 ttcaggagat cctttattct ggaatttga catgacacat ggagcgtagt taatactgtt 120  
 tttagtaagc taaataaatt atatgataaa atgtgatttt cctctcttga aatattttgg 180  
 aatgttactg taaatttttt tttggaatgt tgattttaat ccctttaaaa aattaatata 240  
 tttttaatta cctataaaca tgtatttcac tatccgtgac gaagaactaa aatctattac 300  
 ttttgataaa tgcaaagact aaaaatatgt taaattttta taaaaactaa atctaataac 360  
 acaaaacaat ttgagaggca atacttattt aattttatcc tanaatatat tatgaatagt 420  
 tgactaactt tactactcta ctcttta 447

<210> 11271  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 11271

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 tgacatttct ttcaatttca ggccaatttg gattacatgt aaatgtcaag aacaaatcag 120  
 gaaatccaag ctgtccacaa atagtcatta catcaaagta gagctgctcc atatatctac 180  
 gtgatccaac aaaagattat ggcaatataa taatctttcc tctctgattg ccttgagttt 240  
 gagcatgac tatagattga ctcaaattca tatgtttgtc aacccttaaa tcttgttgat 300  
 gatctctcac aatagttagt ctttgggatt caatcatggt gtagccatct actacaaatt 360  
 ggtggagcaa tctccctgat cttagaatag gttgagcctc at 402

<210> 11272  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11272

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 tgggtctcttc ttcacagata aggcacgac gatggccctt aacattgtat ccaactcaaat 120  
 tcccatatgc tagaaagtca ttaatggtaa aaaaatagca atgcacacaa cttgaatgtc 180  
 tcattttgat acccatcaaa catagcaacc ccctcaccac acaactttgt taagtcttca 240

atcaagggac tcagataagc atcaatgtca tttcttggtt gtcttgggcc taataccatc 300  
 acaaacaaca tcatgtatct tcaacttcacg cacaaccaag gaggcaagtt gtttaattact 360  
 agtaatatag gccacatact gtgctgagtg cttaaactgc catagggatt cattccataa 420  
 g 421

<210> 11273  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11273

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 acaaataagt cgccttaaag tacaattgaa ttgattgtg aattcaatgt attcatttga 120  
 aattcactta gttttaccga cttctttaag catctctact ggatgatatt tcattgttgc 180  
 attcatataa atcaaattta tcattnttct gaatgttggg ttttgaaata ttacagttg 240  
 aaaatcctat ntaccttagc catctgtcat gttttcttat tgcagagaca cttgttcatt 300  
 ctacactgga accctgtgat gatgcggatt tcacttttac tgtctttttc aatttgaaag 360  
 agtacacagt atatgtaaaa cagaggcctt atctccacgc attcttggag agagtatc 418

<210> 11274  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11274

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 catcactatg taaacatcgg ttttatcaaa aattgatgtt aacaaaaacc gatgttaatg 180  
 taatcatctt aacattcaag gcaagaaaaa ggatggtttg aatactcatc aagatctaac 240  
 tgagatgggt atatgtgaac agttacatcc aatgtttgat ggtaacaaaa tataacttgc 300  
 tccagcttgt catactttgt caagaaagga gaagacaagt ttttgtcagt gtatgctttg 360  
 tgtcaaagtg tcacagggat actcttaaaa tattaagaac catgtgcaac tgaaagatct 420



gaaatagttg gctaaagtct catgatg

447

<210> 11275  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 11275

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aaataagtgg cacttcagag tactcttcca tgtccatcac tacaaagtcg acaggaaaaa 120  
tgaatttatc caccttgaca agtacatctt caagaacacc atatggatac ttaatggaac 180  
agtccactaa ttagaggggt atctgtatag gcttaagttc aagatcacca atttttgctg 240  
ataaagagat aggcataaga ttgaggctag ctccaaggtc aagtaaagct ctccccacct 300  
tgagttttcc aataattatt ggaatagtga agctactagt atcttgaggt t 351

<210> 11276  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 11276

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tcaatatgct tagaccttga atgaaagggt gagttcttac caagatgaat aacactccga 180  
ctatccacaa atagtagata tttatcctaa aaaaaaccaa gctcctggaa gaatttcttc 240  
acccatagca actccttgca tgcttcagta atggcaatga attctgcctc tgtagtagac 300  
aaagctacac acttctacag cttggactgc caagtcacaa ctccccctgc a 351

<210> 11277  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 11277

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caaatccaat catcggactt ccttttccat tgcgctggca ttgatcttca agaaccaaag 120

gactccattg atgaagaaga tccagggcct acaaactcca catggagtta catcaatgtc 180  
tataggggag atgacatcac aagggtacaa atatgttgct tcacagtggg gacgcaaagt 240  
gtataaatgg aaacacttgg tgttgcatgg acagataaat aaaggctacc ttagctattc 300  
ggatgggtcaa gtttcgaaga ggaac 325

<210> 11278  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 11278

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ctcgagtgtc tccgttggtt aatttcaagc gtctcgatat tttatgtcct caaatcagac 120  
atcggagcga aatgttatga ccattcgaat ttgtcgagag cttccgtttt tcaatttcga 180  
gcgtctagat gagttatgtc accgaatcac acatctgagt gaaatgttat gaccattcga 240  
atgtgtcgag agcttccgat gttcaatttc aagcgtctat gatgagttat gtcaccgaat 300  
cggacatccg tgtgaaaagt tatgacgatt cggctttgt 339

<210> 11279  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 11279

tcaagaatta tggcctcatc aaactacttg tttcccgagg gaaattttat aaatagacct 60  
cccatcttta atggagtggg ttaccactac tgaaaaaccc gcatgcaaatt ctttatagag 120  
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180  
gtcgggaagtg aaacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240  
ctacaatata atttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300  
tttagggttt caaattgtaa aagtgctaag gatatgtggg atacactaca 350

<210> 11280  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 11280

ttgatgcaac atttttagag gttaatgaaa tttcgagatg atgcgctcca tgagagggtg 60  
gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagaga gaatgatggt 120  
gttcttagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180  
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggacaaaaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
gtgtggtgga acaagctact aaaggagaga gcaa 334

<210> 11281

<211> 341

<212> DNA

<213> Glycine max

<400> 11281

tgtttctaca aggacaatag catcatttct tgcactgaat tggtgggagt tggaagccat 60  
cttctcaatc aaattcctag cctcagcagg agtcatatca ccaagggtc caccactggt 120  
agcatcaatc atactcctct ccatgttgct aagtccctca tagaaatatt gaagaaggag 180  
ttgctcagaa atctagtggg gagggcagct tgcacacaat ttcttgaatc tttcccaata 240  
ctcatacaag ttctctccac taagttgcct gatgcctgaa atgtcttttt tgatggcagt 300  
ggtcctagat gcagggaata atttgtccaa gaacaccctc t 341

<210> 11282

<211> 330

<212> DNA

<213> Glycine max

<400> 11282

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taaataaaca aaataatgca tatgaattat gaaagaccat gggcaaagag cattttatat 120  
gcaccttgat gccaaagtga ttagcaactc ctctcaagaa ttcaacatga gcaccatcaa 180  
gttggcgggt acgttcccca acccatagca tgtgagctga gcaatcataa tgaagcccag 240  
tagtagaatc ctccctagta agtgcttgct cataaggag aagcaaacac tcatgggagg 300  
tccaaaagtc tgttgctactc atgatgggat 330

<210> 11283  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 11283

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 cctcacaaca aatgtagttt catcatcacc ccaagacaca atgtggtcag tgcgagggtc 120  
 atcaacaagt tggatatgtct ttgtcagaaa gggagcaggc actgacttgt gagattccat 180  
 agtgaacacc atgctatctt cacacctgtc tagtgtgaaa gccatcactg aattaccaaa 240  
 tagtgctagc tgcttccaat attattcttt gatggctactc tccttttcat tcactttttg 300  
 cacaccacca agttttaaaag aacctctctc actctctatc atattataat ttg 353

<210> 11284  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 11284

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 gtgttattgg gtttggggcc cgagagctaa atgctgcaac aactggcgac ggctcaattc 120  
 caacctttgt tccctcaaac ataagcctag atgttggttt tcgagcatct tgtaagtaca 180  
 acttgatgag tttcccagcc ttgaaacca ctgcagttgt tggtaaaaga tgggcatctg 240  
 ccaccaattc ctctccgtcg gattccgaat ttgctaacac catgccaca ccgccggcag 300  
 atttcaccac aagtcctttc tctaccctag aactattt 338

<210> 11285  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 11285

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 gatggggcct atgcaggttg aaagtcttgg aggaaagagg tatgcctatg ttgttgtgga 120  
 tgatttctcc agatttacct gggtaaatat tatcagagag aaatcagaaa catttgaagt 180

attcaaagag ttgagtctaa gacttcaaag agagaaagac tgtgtcatca agagaatcac 240  
gagtgaccat ggcagataat ttgaaaacag caggctcact gaattctgca catctgaagg 300  
catcactcat gagttctctg cagccattac accacaacac aatgggatag 350

<210> 11286  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 11286

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acaaagggtgg agtatggagg attgccttga ggggccgcac ttaggcaatc atgaaactaa 120  
gtcccaaact cgaaagtgga ggacacatga acaaccctaa gcaataatat tcatgtggct 180  
ccgaaaaagg atgagaatgg aggattgcct tgagggtcct ctcttaggca atcatggaac 240  
acagctccaa actcgaaaac ggaggacaca tgaatgaaac cgcaattcat tcacgtggct 300  
ccggaacagg atgagaatgg aggattgcct tgagg 335

<210> 11287  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 11287

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aaagttatga ccatttgaat ttctcgagag ctacctttgt tcaatttcgt gcgtctcgat 120  
atattatgcy cctgaatcgg acctccgagt gaaaagatat gaccattgga atttctcgag 180  
agcttccggt gttcaatttt gagagtctcg atatattatg cgcataatc tgacctccga 240  
gttaaaagtt atgaccattt gaatttcttg agagcttccg ttgttcaatt ttgagcgtct 300  
cgatatatta tgcgcctgaa tcggacctcc gaggtaaa 338

<210> 11288  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 11288

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aatataggct ctagctaatac atcatgaatg gagatatatg ttagacaagt ggccttagat 120  
atcttaagaa ggggggagag attgaattaa gatattccaa actacttccc caaataaaaa 180  
tctatttcac tttttattca agttataaat tcccttaaca atgaacttct taaatattga 240  
ttcaaataaa acaatttgaa tatgaatgta aagcaataat aaataaagga gtttaaggga 300  
agagaaagtg caaactcaga tttatactgg ttcggccaca 340

<210> 11289  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 11289  
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aaaatctttt gaaattgagt gtgatgcttc aaatgttggg attggggctg cgttgatgca 120  
agaaggccat ccaattgctt attttagtga aaagttaagt ggtcctacc ttaactattc 180  
aacttatgat aaggagttgt atgccttagt acgggctttg aaaacatggc aacactacct 240  
ttatcccaag gaatttgtca ttcatagtga ccatgagtc ctcaaatata tcaaggggca 300  
aggcaagctt aacaaaaggc atgcgaagt ggtggaatt 339

<210> 11290  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 11290  
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aagttattgt agtttgaatt tgctcagggc ttcggtatcc catttcgagc gtctcgatat 120  
attacgggac tcaatcggac atcagagtaa aaagttattg ttgtttgaat ttgctcagag 180  
cttcggtatt ccatttcgag catctcgata tattacggga ctcaatcaga catccgagta 240  
aaaagttatt gtcgtttgaa tttgctcaga gcttcggtat tccatttcga gcgtctcgat 300  
atattaccag actcaatcag acatccgagt aaaaag 336

<210> 11291  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11291

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 ccacattggt acaactcctt ccatcaatga tcaccatgca aactttgcca ttgatcaaac 120  
 atctagtgtg gaaaatgttt tctctttgac tttcctccat tgacttcaat tgatggccaa 180  
 gtaaccgcct aatcatcaac aattctccct cgggtgtttt ctccacttcc tcctcactct 240  
 cttctccctt ttcaacttcg gactcactaa tttactctcc atctctaaga atcatggctt 300  
 tcttgtagg gcactcatat gcataatgtc 330

<210> 11292  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 11292

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 gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg gtctatctct 120  
 ttttgatgca gatggaggag ccttggtattt gaggacaaat ccttttcaag aaggagggag 180  
 tgatgaggac atttgataaa atttggtgag agtttctctc tgggttcctt gttgaaccaa 240  
 ttatcagact tatcaaggta atccttgtgg cgtctacca gacttatctt ccttcattgg 300  
 aagtggcgtc taccgggact tatcttcctt caccggaagt ggcgtct 347

<210> 11293  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 11293

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 ggataattgt tgatggaatt tggaattgag ccattcaagt tggttatagct caaattcaaa 120  
 tacttgagac ttgtaagggt tttaaagtca gggatagctc cagagattga attgttttgg 180  
 agatacaacc aggtgagtct actaagattc tgaaaggtag ttggaatact gccagagaag 240

ttgttagagg aaatatccaa tgctatgagt tttggtgaga tagaggaagg gattaggcct 300  
gagaagttat tctgctgcag gtttacatat tggagtgaag gaatggagag aa 352

<210> 11294  
<211> 335  
<212> DNA  
<213> Glycine max  
<400> 11294

taatggccat ggtgattgag aaggagacat tcattatggg aatgcaaatac atgcttccat 60  
tttgcttttt agacatgact cttgcttcaa taacatgggt tgctagtctt gtaaccacca 120  
acctagtacc attgcataac ccttgatgatt gatacatggt ccttaaaagc attattgggg 180  
taccacacctt tagttttatc ttatgattag gaagacaaaa tgttctcaaa ctattgagaa 240  
attcacttgt gaccacttca agtgcatttc attcaacat ttttgacttg tcaattgaat 300  
aagaacttag atattccctt tgatcacctg aaaac 335

<210> 11295  
<211> 348  
<212> DNA  
<213> Glycine max  
<400> 11295

ttgaagggat gtatttgctg gctataagac cactatccaa tttctcctta atgaaatgtt 60  
gatcaatctg tatgtgcttt gttcgatcgt gttgaactag attgtgtgca atgctaattg 120  
cagacttatt atcacaacc agtcccataa gagcttcata ttttattttg aggtcatcga 180  
gtatgacctt catccataac aactcaciaa caccttgagc catagctatg aattctactt 240  
ttgcacttga tcttgcaacc acattttgct tcttactcat ccacgttact aaatttcac 300  
ccaagaacat gcaatatctt gtggtagatc tcttattaac aattgatc 348

<210> 11296  
<211> 347  
<212> DNA  
<213> Glycine max  
<400> 11296

tcaccaccaa cagagtgcct tggataagaa tctgagagca gaagcttcaa tagaggaaga 60



gaatgagggga gagggagaaa gagagagagt ggcgtggaaa ttgaaggaga atatgaagtg 120  
atgcaatcct atccccaag aagattggac caaagatgca agagaaggcc ctatgattct 180  
cataagcctt agggtagatt ttggggcccat gggctaagca taagcccact tatctttgta 240  
catattaaat taagatttca ttatttttgg gccttgtatt tagggctcca taatgtaggt 300  
cggttaccct agaaatgtag gatttttcag cctttgtatt ttatggc 347

<210> 11297  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 11297

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aggtggagaa atctacaccc aaggaagaca atggtgtggc tgattttgaa ccaactcatc 120  
agcctattca gaatctgaat attgatgttc aaaatgatgt tgggtgtccaa caacctaaag 180  
atgaagtata tgttctgtt gatgatgaag aagaggagca tgacatgtca caagatgaaa 240  
atcttgggtga tgctactgaa ccacctcaag ttcaactcag gaggtccaac aaggagagac 300  
aaccttctat gaagtattct tttaatgagt atgtgatcct aatagatgaa ggagaacctg 360  
attactttag agaggccatg gaaagtgaag aatagaaaaa gtagctagat gtaatcaagt 420  
ttgaagcttg ttggg 435

<210> 11298  
<211> 540  
<212> DNA  
<213> Glycine max

<400> 11298

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gtggacggcg cctcctctca cctcttctcc ttgtcttcc gctgcatctc catggtgtaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
gcaagcttcc ataaaaaagc aagagaaaag agtaaagaaa tagcttcaga tgagggaaaa 240  
gaagtgtcat acccttttgt accttccaag aaagataagg aacgccacct ggcgagattc 300  
ctagatattt tcaggaaact ggaaataact atgccatttg gagaagcttt gcaacaaatg 360

gcactctact caaagttttt aaaagacatg ttgacaagga agcacaagta cattcaccaa 420  
 gaaaatataa ttgtggaggg taattgcagt gctgtgattc aaaaaattct tccaccaaag 480  
 cacaaagacc ctgtgagtgt gaccattcct tgctcaatag gtgaaatcac agtgggaaag 540

<210> 11299  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 11299

actaaattca atttatacac aagtcttgca ctttccatat tggtaacaact ctctccatca 60  
 atgatcacca tgaaaacttt gccattgatc aaacatctag tgtggaaatt tttttctcat 120  
 tgactttcct ccatagactt caatagatgg ccaagtaacc gccaaatcat caacaattct 180  
 ccctccagtg ttttcttcac ttctcctca taatcctcac tctcttctcc ctttttaact 240  
 tcagactcac taatgtactc tccatctcta agaattatgg ctttcttggt agggcactca 300  
 tatg 304

<210> 11300  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 11300

agcttcattg gagcttgtat gcctatgatc ttcttcatca atggattcct ttgcttcttg 60  
 gaagatgaat ggcaacggaa tggagagga agggagagag gagacgccac ttcaaggaga 120  
 agatgagttt agaaaaagct cagcaccata ggaggctatg gataagagct ttgaggaaga 180  
 aggaggtgaa tgaagggaga ggaagagaag agcacaaaat tttgtgctct aaaagagctt 240  
 tgaaatctga agtttaattt tcaaatgatc aaagttcaaa aaatgcacac acatggcctc 300  
 tatttatagc ctaagtgtca cacaaaattg gagggaaatt tgaatttcta tttcaaattt 360  
 cacttgaaat tgaaattgaa tttgtggagc caaattttgg agccaaaatt tcactaatta 420  
 tgattagtga attttaacta ttgttc 446

<210> 11301  
 <211> 415

<212> DNA  
<213> Glycine max

<400> 11301

aaatttttcc aaagatgcag ggcataaaat ctatgagggtg caccaggcat gacttcttgc 60  
aaagctggaa taagtccctg aaaaaataaa gtagtccata acttatgtca ttaactgcaa 120  
ttaaatccct aacttatgat aataattgca aatcatttca tgtcatacct tttgcatgtc 180  
tgacatgaaa ttccacccat tctgtacata atccccaaga tctttatgca acaaagttaa 240  
aaaacatttc caattttctt tgttctccac gtctaccaca acataagcaa taacaacgat 300  
gtggttatta gcatcaacc caacagtaaa gagcaagttt cctccaaatg cacttttttag 360  
gaaacatcca tctagaccta tgaatggtct acatccagca acaaaccct tttta 415

<210> 11302  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11302

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tcaagaacaa gctcaccacc ataagaagcc atggataaga gcttgaaggt aggagaagat 180  
gagtggaggg agaaggagag aaggagcacg aaatttagtt cctcaaata ggtatgaact 240  
ttgaagtgtg atttctcaat gatcaaagtt caaaaaatac acacatatgg cttttattta 300  
tagcctaagt gtcacacaaa attgtaggga aatttgaatt tctattcaaa tttcacttga 360  
atttgaaatt gaatttgtgg agccaaaatt tcaactaatta tgattagtga attntagtta 420  
tggttcagcc cactaatcca agatcaagtc caagattctc ca 462

<210> 11303  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 11303

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tgcgactatt ggccacggat tttgaagata cgattatgaa ggaggaagaa tgtattcatg 120  
 acttgacat gaacattggt gaaattgaca atgcttgac tggctagtga gagaggatga 180  
 cagatgacta gctggtgaca catatcctta gatacttgcc tattagattt ggcgtgagag 240  
 tcaactgcgat agatgaggcc caagacattt ctacttgaga gtggatgaac taattgtttc 300  
 cctactaacc tttgagctaa gaccctcgga tggggctgaa cacaagag 348

<210> 11304  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 11304

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 gcgattctag atgccacttc aaggagaaga tgaatccaga acatgctcac cactatagga 120  
 gaccatggat cctagcttca aggtcttgaa agatgaatag actgagaggg agagaggggc 180  
 gcaccttact tgagacttga catacttacc aactttt 217

<210> 11305  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 11305

gtttggcggg tgttctggag tggcagtgag tggtataatt ggaattggaa gggttcgggc 60  
 gagttcgagt tcttcttctt ctgaggagga ggaggaggca gtgagtgtgc agtcaaaagt 120  
 gactcagaaa gtatacttcg acgtgagtat tggaaatcca gttgggaagt ttgtgggacg 180  
 gattgtgatt ggactgtacg gcgacgatgt ccccaaacg gctgagaact tccgtgcctt 240  
 ttgtactggc gagaagggct ttggatataa gggttctacc gtccatcgtg tcatcaagga 300  
 tttcatgatt caaggaggag actttgacaa aggaa 335

<210> 11306  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11306

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gatctagcca tttccataac tgtgcgattc tttctctcgg acactccatt ttgttgagta 120  
gaatatgcga atgtaagttg tcaactcaatg ccttcaccc cacaataatct ttcaaactca 180  
cgagaggtgt actctttgcc gngatcactt cttagtactt ttatccgttt tccactttga 240  
ttttcaataa gggccttgaa ctttttgaat actccaaaga cttctgattt ttcttttaga 300  
aaatataccc atgtcattct agagaagtca tcaatgaaga gtatgaagta cctgttggtc 360  
tcattgtgatg gcatactcat tgggtctacat gct 393

<210> 11307  
<211> 466  
<212> DNA  
<213> Glycine max

<400> 11307

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ggaagagaga gaggagacgc tacttcaagg agaagatgag tctagaagaa gtcaccacc 180  
ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 240  
aagagcacga aattttgtgc tctaaaagag ctctgaaatc tgaagttaat acttaaata 300  
tcaaagttcc aaaaaaattc acacacatga cctctattta tagcctaagt gtcacacaaa 360  
attagaggga aattcaaatt tcacttgaat ttgaaattga atttgtggag ccaaaatttc 420  
actaattatg attagtgaat tttaattatg gtccagcccc actaat 466

<210> 11308  
<211> 556  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11308

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gaggagtaac acggaaggat gcttcagagt cgattatcca tatacaatca ttaaatacaa 180

tattttaaata attttcatta ctgataagaa aaacattctc atcgtctgat gccacagcag 240  
tagtggttcc accttcattc tttttctttg ggtcaatttg attagcatgg acagttccag 300  
ccttctgac tctcttcaag aatctgcagt taaacttctt atggcccaac tttgcagtag 360  
tagcaactca agcctttggg acgagacttg gatcttcctc gtgatttccc atggccttct 420  
ttaccatggg gctcgtcct ccctttatct tcaacaacat ttgcttcgga gtgactactc 480  
aagcctctct tatttcgtct ggactcttca tttagaaaac tatntgtgac atttatccat 540  
gtaacctttc catctg 556

<210> 11309  
<211> 468  
<212> DNA  
<213> Glycine max

<400> 11309  
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ccaatgcctg ttggagttct ctcggtccac tgggtgtcta tgaggcgtga tccctgcaaa 120  
ctgatata gcatctgaga tcaattgagc cacatgggta ctcacctagg tcaggatggc 180  
gtagaccagc tgacaattcg gcagggggag gttggaatta tggttgctag ggagaatgtt 240  
gctaagcagc aacatcatcc aaatctgtgt catgatccgc acccgtctcc ctgccacact 300  
tcaggcaatg actcctcctg atgcaagctc cattggagct tgtaggccta ggatcttctt 360  
catcaatgga ttcctttgct tcttggaaga tgaatggcag cggaatggag aaaggaagag 420  
agagaggaga cgccacttca aggagaagat gagtctagaa gaagctca 468

<210> 11310  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 11310  
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aaaaatcact acgaggcgaa aaagatttta tgtcctgtgg gaatggagta ccagaagatc 120  
catgcatgcc ctaatgattg catattgtgc aaaaattagt ttgcaaaaat gcggcagcgc 180  
cccacgtgta gggcatcaca atacaaagtg caacatgatg aattaagtga tgatgcaact 240

accacaaatt ggggtcctgc aaaggtccac tgatatcttc gcgtaatacc acggtttaag 300  
cgattttttg ctaatggaca tgatgcaaaa aaccttacat gacatgcaga tgaccgaaaa 360  
agtgatggat tgctttatac at 382

<210> 11311  
<211> 554  
<212> DNA  
<213> Glycine max

<400> 11311

tgtatgtgga taacatactt atttttggta catgcaatga tatagttttt aaaactaaat 60  
atttattagc atctaaattt gatatgaaag acatgggtga agcaagggtt aatttcggag 120  
ttaaatttaa aaggaaggga gatagtatat tactatccta tgagcattat gttgagaaac 180  
ttctcaagaa gtataaatat tatgacttta agtcagtga tacccttat gatgctaact 240  
ctcaattaaa gaaaaacata tgaaaactaa ttgctgaaac tcaatatgcc caaatcatta 300  
ggagcttatt gcatttgatg aacttttcta gatctgatat tgcatacgca acaggcagat 360  
tgagtagata tacccataat ccaaatacaga accattggga tgcacttgct agactcatga 420  
gatatctggg aggtaccatg gattatgcta ttaatacagt ggatttcca cagtactcga 480  
agggtatagc gatgctaact gggctctctga ttcagatgag agaagatcca ttagtgctta 540  
tgtgtttact cttg 554

<210> 11312  
<211> 558  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11312

gcttgaggca tctacctctt gaagaggcag aggtaagggc atagggataa gttttatagg 60  
tagaggacgg ggagatcaaa cactattaga aaatacactt tcaacatcgg ttatttgggg 120  
ccttctacat cggttgtaaa accgatgttg aaagcatoga tgttgaaatgt attgttggtta 180  
acatcggttt taaaaactga tgtaaacata aaaatattaa catcagtttt ataaataacc 240  
gatgttataa agaaagaagt acaacaaaat aagtgtatgc gtgagggacg ttggcatcag 300  
ttttctgtaa aaaccgatgt gaatatgtta tattaacatc agttttttaga ggaaaccgat 360

gtgaacgttc atcattcatg cacctatttt gctatagtaa tttatgtata acattgggta 420  
 tttataaata accgatgtta ttgcatacag tttaacatcg gttatntata aataatcgat 480  
 gttaacctat gtacattaac atcggttggt tataaataac cgatgttaac ctatgtacat 540  
 taacatcggc tgtttata 558

<210> 11313  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 11313

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 taggcctcct atttttaatg gagagggtta ccactactgg aaaacccgaa tgcaaatttt 120  
 cattaaggca atagacttaa acattttgga agccatataa gttggacctt acataccac 180  
 catggtgact ggaaatgcaa caatagagaa acctacagaa gagtggactg aagatgaaag 240  
 aagattattg tagtacaatt taaaggccaa aatcatcatt acttctgccc taggaatgga 300  
 tgaatatttt atggtttcaa ataataggag tgctaaggat atgtgggaca ctctacaagt 360  
 tacacatgag ggaacaactg atgtcaaacg atatacgata gatactttac ctcatg 416

<210> 11314  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<400> 11314

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 cattaaatac aaaaaaaaaa aaaaaaaaaa ccattaaact aaaactcaaa aatgcaatca 120  
 aataaataca tacttcaaca agacgggctt tgctagcctt gtctttctct ttctccagag 180  
 catgaagttc cacttctagc tgcattctct tcctttcaag gttatcaatt tcctcaggct 240  
 gactatcaag ttgaacccta acatttgcac aagcctcgtc aaccaaatac attgccttgt 300  
 caggaagatg acgccctgaa caatcacaaa aaatataagc acacatcaca ctaacaaaac 360  
 cacaagcttt caaaacaaac gcacacacac caaaagagta cagattccat accagttata 420  
 taccggttag acaattgagc tgccataacc aaagcacggt cctgaattct aacaccgtga 480



t

481

<210> 11315  
 <211> 187  
 <212> DNA  
 <213> Glycine max

<400> 11315

agcttgtctg accttcaaca gatgatttga acacaatact tccatttcca gatgctttaa 60  
 gaagaggata agcaagttgg ctcaaattgg atgcagaatc caagttagtt gccattaatt 120  
 ttgaatattc ttcggctgta tactcaattg ttggtttcct cacatttggt ccaacattgt 180  
 ttaccta 187

<210> 11316  
 <211> 661  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11316

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 tttgtcatga ccaacatcga aagctgccac tattcagaag ggatgtcatc atttttccat 120  
 ggtcgtactg gttaccatag tcatgatgaa tgtaccaaga ctatgatcaa gtgacagagt 180  
 ctttaagtct ttatattaaa gtggatattt ntactctttt cacttaatng agtagttata 240  
 cttcagcaag aaaaaactag caccxaaaca cgagttttgc taagaaaatg catgcaactg 300  
 gcataaaagc tcacaaaata tcaactgtaa tgtggtttat caatcatcat tcaaagatct 360  
 tgtgtctggc attaattgat gatgactgaa tcattgcaat ggaagaagaa cttcaccggt 420  
 tcacaaaaaa tgatgcctgg acacttgttc ccaatcctga gaatanaagc attatntgaa 480  
 caagatgagt attcaaaaat aagctagatg aacangggta ggtagtaaga aacaaagcta 540  
 ggtagtagc ttaagtctat aaccaaccag aatctatnaa gttcacagaa acctttgatc 600  
 cctatactag acttgaagat ataagaatcg tgcttccctt tgcttgccca taaaatataa 660  
 a 661

<210> 11317

<211> 443  
 <212> DNA  
 <213> Glycine max

<400> 11317

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gaaactctat tcacaagacg attaaaatca gattgttcga tggtactccc ctaacaaggg 60
aataccaggg taatgtccca cggaagtaac ttcagaaaag cactcattt ggaccaactg 120
tcttctacta ctatgactga cattctttga aaagaatatt ctagctttct cttggctaatt 180
atgctggcct aacatctctc caaacaattg catagtgtcc aaagtacatt tcatatgctt 240
agtagaagcc tgaccacaca ataataagtc atccgcaaac atgaagtgcg agatgagggg 300
gccctttctt ccatacaaaa aagggtttcca agcttccact gctttcaaga taatgtggga 360
gagtttgctt atacctaaca caaagaggta aggtaatagc acatcacctt tgcgcaaccc 420
cttattagga gcaaactgg gag 443
  
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<210> 11318  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<400> 11318

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tataaaaagt gaggtgaat tatgatttta gaagaagaaa gattgaagcc tttttttgag 120
gaaaaaaagt taacgtgtta aagaaaaact ttgttagaaa aataataaat ttttacaaaa 180
acttgtttag acaatgaaaa tagatttcgc aaaacataaa ggattttcaa gatgaaatga 240
aattcaaacc cctatattaa tttaaagcaa aagataaata cactaaagac atatgagata 300
taaagaatta tactagttaa tctttaccac taaggctatg ttttaagtttt gattaatcac 360
taagtttcac taacttatca caaatacaag gtttacgtca cagtcatttc tcgctctaca 420
gatcaagatt taccctaagt ttgttacaac tcaatatttt ttgtcccaaa aggttctatt 480
tgactctatg caaatcagaa agatttggtg attggttaca cgacgactaa ctcttatttc 540
ggcttaataa atggatctgt atttt 565
  
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<210> 11319  
 <211> 363  
 <212> DNA

<213> Glycine max

<400> 11319

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tatgtaaaac caaatcgga atttgttata gctctaaciaa cttcctgatc atcaccaagt 120  
acacgtctga ggatctcata acgtgggatg aagaattttt tcaagctcct gttcaaggta 180  
tggttagcaa ttaaaatctt acgcatatca gtgttggaia gcccaataga acggaagaac 240  
ttgagtttag gcaaaagggt attctctgca tccgcaaciaa gcaccaaagg gtgtttctcc 300  
acaagttttg caagatgggt tttggtgaag ccatacttgt tgagacgatc aataacagca 360  
ttt 363

<210> 11320

<211> 543

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11320

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gatcacttgt tgaaactggt agtagcttta gagtgccctt caaaagcttc tctcgcaaaa 120  
gatggcaatc aatttccaag tgttttgtgc gttcgtgaaa aaccggattt gaggcaatgt 180  
ggactgcgct ttggttgtca cagtaaagag ttggagttct ggtaagctga actctcaaat 240  
ctgcaaaaag atacaacagc cattgcaact cacaagcagt tgaagacaga gccctgtact 300  
ctgcttctga agatgatctg gacacagttg cttgcttttt agcacgccat gacactaaag 360  
atttgcctat gaagaaaciaa tatccagata tggattttct agaatacata cagcctgccc 420  
aatcagcatc tgaataacct ataagttgca tttctgaagt tctgctaaag aaaatacctt 480  
ggcctggggt gttcttcaaa tacctcaata ctctacatgc tgcattngaa tgaacatttg 540  
tgg 543

<210> 11321

<211> 592

<212> DNA

<213> Glycine max

<400> 11321

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gtcaagtata atgttacttc cttcactaaa gcggtgatcc atctccacac atattgtatc 120  
aatagcaaca taaaaaatct ctgcacggta atgatgaaga ttagtgatag tcttcccttc 180  
tgctcttgaa cgaccccgaa ctggtatttc gtcattcata tttggtacca gaatactttt 240  
agcaacacaa aatccttggg catcggcaaa aaaattattc cagccactct ctcattgtgc 300  
ccaaccgagc tttgacaaca tcaactaatt ccatggcatt cacaatatta agatcttttc 360  
tttgcaatat atttgaaagc tcggttctga taccaaaca ctgtaacatt aacctcaaaa 420  
taaaagcaaa tttaaagctc ttccattttt ctatcagacc tgctgcttga gatgggtccac 480  
gttcattctc atcaaccata ctaagcacct tttacacgga ggaccacata tgatccagac 540  
gaagcaatgt agtatgatgt gaaccccatc tagtatcccc ggtctagtgt ag 592

<210> 11322  
<211> 545  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11322

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agtttcaaga atcaagattc aagaacaatc aagatcaaga ttcaagaatc aagagaagac 120  
ttaatcaaga taagtactag attttttttt caaaacattg agtagcacia gaatttttca 180  
caaaatcttt taccaaagag ttttactctc tggtaatcga ttaccaaag gtagtaatcg 240  
attaccagta gccagcattg ttttcaaaac tgatttacia agccataatt gattaccata 300  
atcatgtaat cgattaccaa tgttttaaaa tgtttagattt ccaatttcaa gagtcacaac 360  
tagtgataaa acattttcaa atcattttta acttgtggaa tcaattacca atgtttctaa 420  
acattgtgat tttcaaattt aaacatgaag agtcacatct tttgatgtgt aattgactac 480  
actataatgg taatcgatta ccagtgactg atttcgaaaa ataaatntcc aaaagtcaca 540  
attct 545

<210> 11323  
<211> 597  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11323

taagcttatt gagttttaca cactctccac tgttggtcct caattttattg ttaattatat 60  
aatcagaata atgactcatc atatgagtag ttggacctgt aaaatttgtg atttttaaga 120  
aatttgagcc aacaaaaaag agtggttcaag agaattgtgtt agagacagtg ttgctaccat 180  
ttctctgttt aggaatgggtg tttgtagtta ttagtgaaaa tagaaataga aaatactttc 240  
cttatgtcaa acaggcttct gcattactat ttttagtttt tacaacatta tgatagatca 300  
ttatatattt tttctttctc taaaacaaat gatttggtta ttgtcttggg gtggtgtata 360  
taaaaactga tcaacacatt ttacttttct ttttttgcct gttcattcca atgtacaaat 420  
gattggctta tgatgcaaca aaatctaaat caggaactaa gtagctcttt taatataaaa 480  
catgtnttct ttatctttta cttttctaca acattcatgt ccctttnctt tgatgtctan 540  
gctgatgtgc tcngtgatat attgaagatc tatttgagaa tngtgatata atgctct 597

<210> 11324

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11324

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agaagaatgt ggcatttaac tggggtgaaa aacaagagca agcctttgct ntgcttanag 120  
aaaagcttac taaggcacct gttctagctc ttcctaactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgttttggtt gcaagggtggg caccctattg 240  
cttatttttag tgaaaaactt catggtgcga cccttaacta cccacacctat gataaagagc 300  
tntatgcctt aataagagca ctccgaactt gggaacatta ccttgtttcc aaggaatttg 360  
tcattcatag tgatcaacaa t 381

<210> 11325

<211> 473

<212> DNA

<213> Glycine max

<400> 11325

atttacaaca gtcattagaa attctaatta acatcttaca atgtgcaatc ggctacacat 60  
gtatggtaat cgattaccag catttacaga acgtttttaa tcaaatttta aagcctgtaa 120  
tcgattacac aaatcgggta atcgattacc ataggagctt ttcaaaaaat attttcaaga 180  
gtcacatctg tccaataggt ttatgaatga ccatcaaagg tctatttata tgtgacttga 240  
aacacgaagt tgcttagagt ttttcagaac aaaaaggctt tatcctctca aaagtaaaaa 300  
tatcttatcc tcttaaaaaat tccttggtca atacacttgc aattcaataa ggaattattt 360  
tgagtgtccc atttgtcaat ctatcttttt caagagagat ttcttctttt ctttatctta 420  
atttctgaaa aggtattaag agattgatga tctctttgtg aaagcaattt gac 473

<210> 11326

<211> 526

<212> DNA

<213> Glycine max

<400> 11326

agcttcacaa aagtttgtat ggtttgtttc aagcaccgag atagtgttac aagaagttaa 60  
atgagtttat gagcaactca ggattcaaca gatgtgacat ggaccattgc tgctatgtta 120  
agaaatatac taatagttat gttatcctta tcatgtatgt tgatgacatg ttgattacag 180  
gatctagtat ggcagaaatt aacaagttga agtagtagtt ggcagaaaac tttgaaatga 240  
aggatcttgg tccatctaaa caaatccttg gtatgagaat tcttagaaac agatcagaag 300  
gaattttgaa gctatctcaa gagaaatata tacacaagtt gcttgacagg ttttatcttg 360  
aagattctaa gaccatgaat acccctttgg gatctcattt gaagttttca aagaagcaat 420  
atttgacagac aaatgaagaa aaatgttaca tgtcaagagt accatatgca ttaacagttg 480  
ggagtttgat gtatgctatg gtatgtacca tacctaacat agcaca 526

<210> 11327

<211> 581

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11327

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taagagagta ggcttgcaaa caagggtcca atttggacaa aagtgtaaaa ctacttatta 120  
 attagaattt tatgaatcat tgtttggaat attgaagaaa aaagacaacc tgacaaccag 180  
 ctgccctgaa ggaactaaaa tcatggcatc caacaagaac tctgcatgct tcctgcatgg 240  
 atatcatcaa taacttgaat agctgcaaga ttgagaatct agtaagtata aggagctggt 300  
 aactaacttg catagctgga agactaagct cctcaggtac atgccatgct cgatctttct 360  
 cgaagggtga caaatgctct ggcccagaaa gcaaccgata gaagtatctg aatagtagtt 420  
 ccaaataact atcaattact gcatatggtc ataaacagaa caaaagaagt tccatgacaa 480  
 tgcattgaaa tgtagccaga ttcagaagat ctaggatgaa ccttactgtg atactctcca 540  
 gtgtcactat ttattattan tatagagtac aatttcatgg a 581

<210> 11328  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 11328

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 cgaatataac attccctttc tgcggctgaa aaacatcctc gttatcgtcg tagtcctcta 120  
 gggctctgcc ggtggtggtg ccggtgccgg tgccggcgaa gaggggaatcc acgtcgggtg 180  
 gatactttgc ggatttataa gcgctgacta ttccgttgac ctctggaacg attcgtaaga 240  
 ggcgcgtgta tgccctcgag ggggtaagtt tgagctcggg gattaatcgg gcgagtttgt 300  
 tgaggacgag gcagggggtg aggcgctcga tccatcactg gcggaggacg gcgtgtgtct 360  
 agatgtggac tccttctacc gcgt 384

<210> 11329  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<400> 11329

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 ttactcgcac gctaaagtcc agtcccatca gcttttcaag tccccaattc tgcattaaag 120  
 ttgttgaggg tttttctagc aagtgtttga gtgccttttg attagttttg atgataaagt 180

gttgccccag aaaataatgt tgccatttct tgactgcaaa caaaatggca ttgaacttct 240  
 ttccatatgc agacaaaagc tgggtattttg gcccattgc tttgctgata taagctattg 300  
 gatgaccttg ttgaattaag acatccctaa tgccaattcc agaagcatct gtctccacag 360  
 taaaggggtg accaaaaatca agtaaggcca gtataggggc tgagatcaag gctttctttt 420  
 gtggaagaaa agcccttttt gtgtcccatt ccacttgaag tcagtatttt ttctgaagca 480  
 actgtgtcaa aggttgagct atcttcccat aatttttgat aaatctcatc taaaattctg 540  
 ataacc 546

<210> 11330  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 11330  
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 atcgagacgc tcgaaattga atgttgaagc tctgagccaa ttcaagcgac aatatctttt 120  
 tactcggatg tctgattgag tcctgtaata tatcgagacg ctcgaaattg aatgttgaag 180  
 ctctgagcaa attcaaacga cattaactgt tttctcggat gtctgattga gtctgtcat 240  
 atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaaacg acaaataact 300  
 tttactcgga tgtctga 317

<210> 11331  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 11331  
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 aacgaagaca ctgacaaaaa cttatcttct cttcttggga caaaatatgg caggctgggtg 120  
 gcaagtaaatt tttcttccca tcagaccttg gatgcaactg tgatcgtata cccatatcag 180  
 ctagatcttg acgggtattc aagccatcct tcgtcttgcc ttgaatgtta aggagcatcc 240  
 caatcacact gtcacaaaca ttcttctcca catgcataac atcaatacaa tgtctaactg 300  
 caagatcaca ccagtactaa agatcaaaga aaatggacct cttcttccat atgcaactct 360



gactattatg cttcttttgg gtctatccaa atacagtatt catgtgttga acccattgat 420  
 atacctgctc acc 433

<210> 11332  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 11332

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 atttatacct tataacatat ttataaaatg aaaaaaatta caactattaa taaataatta 120  
 aagaatattt ttttaattta tgaatttttc tgtttattgt agtttaacac atgattaaaa 180  
 aattcctacc aatattcatt atcattgtat aaaacaaatc tactctttat catggaaaag 240  
 ataatagtgt ggaaaataaa aaa 263

<210> 11333  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 11333

atggtgttat cgattacaat atattggtga tcaattacca gtgtatctga acgttgtaat 60  
 tcaaattcaa ttgtgaagag tcacatcttt tcataaaatg ctttgtgtaa tggattacat 120  
 ggttttggta atcgattacc agtgacaagt tttgaataaa aagtcaagag atgtaactat 180  
 tccaatgggt tttaggttgt ctcaaggcta taactcttcc aatggttctc ttgaccagac 240  
 atgaagagtt tataaaagca agaccttgat tttcatttta taactttttc ataac 295

<210> 11334  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 11334

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 cgaaataaat caacagaagc tctctagaaa ttcaaatggt cataactttt cactcggagg 120  
 ttcgattcac gcgcataata tatcgagacg caccgaactc aacaacggaa gctctcgaga 180

gattcaaattg gtcataacct ctactcaga tgtccgattc aggcgcataa tatatcgaga 240  
 cgcacgaaat tgaacaacag aagctctcga gagattcaaa tggtcataac ctttctactcg 300  
 gaggttcgat acatgcgcat aatatatcga gacgcacgag attgatcaac agaagct 357

<210> 11335  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 11335

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 aataaggggtt gaacactatg agaaacataa atagttaact gattagaatt atcactctct 120  
 ctctcttgtg tatcactctt ttcctcaggt gtatcactct tctttttcgt attccattgt 180  
 ggcgcctcac tattttcttt ctcttgttca atttcgagcg tctcgatata ttatccgcct 240  
 gaatctgacg tccgtgtgaa aagttatgac catttgaatt tctaaagagc tttccgttgt 300  
 caatttcgag cgtctcgata tattatgcgc ctgaatc 337

<210> 11336  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 11336

aatgaagatg atcaaaaaag tattagtga tttgtgtttt tcatggggaa tacgaccttc 60  
 acttggatgt aaaaaagtac tcgatagtca ctcttttgac ttgggaggca gaatacgtag 120  
 cagctacttc atgcgtttgt cctgtagtct ggcttaggaa tttgttaaaa gagttggaca 180  
 tgtcacaaga cgagcagacc aagacctttg tggataataa gtcaaccatt gctctagtaa 240  
 agaaccaggt gttccatgat cgaagcaaac atattgacac tcgttaccac tacataagat 300  
 agtgcatagc aagaaaggat gtacatccag aatatgtgaa gtctcgag 348

<210> 11337  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11337

tggtanaaga atgggttcag aacgctataa acctctttat gttacccttc ttgggctact 60  
ctgggcttgc aatcatgcc a gtcttggtga tgagggtac tcatatttca atcgggctg 120  
gcttgacagc cccaggttgc tgaagtctga gcattatgct tgtatggtta acttgctcgc 180  
tcgctctgga cggtttgcag aagctgagga ttttcttcac agtgtacctc ttgacctgg 240  
acttggaattt tggaaggcat tgcttgcgag gtgtcaaata cactctaacc tgaagttggg 300  
agagctggca acaagaaaga ttctggctct ggatcctgat gatgtatcgt catatgtgat 360  
gttgtcagat gctcattctg caacaggtaa gtggtcagat gtggcaaccg taatgact 418

<210> 11338

<211> 486

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11338

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tactaaggaa tcacatctag aaagcttagc aaaagggtgtt ttaatcgtgt tatcaataga 120  
tactaaatgc ctttcaacaa gatttgctca tcattttctg ctcaaaattt gtacaaatac 180  
acttcattgt cagtctcaga taaataaata ggtgctattc tatgttaaata gttatatcat 240  
atataaaaaa atcaatattt tctctgtaat attaagttat tctgattcac tatcctaaag 300  
aagcgttgat gacttatagt ggtaaacaaa ccaaatgaaa ttattttcac atgatctaca 360  
gttccttttt taaaacaata tgaaaatcta attcttaaac agataaagggt tggtagcttg 420  
acataactat ggatttcacc tctcatttga tggcatagaa cttgagaatt ttataaaaga 480  
acttct 486

<210> 11339

<211> 454

<212> DNA

<213> Glycine max

<400> 11339

ttccaatttt gaatgggacc aaagtaatgg attgccttct acgtttcttc ctaaactatt 60  
gggattttga ttgggtattt ctctcacttt tagtcaaagt tcataaaaaa taatttgact 120

ttgaaaaaaaa aggaaaatat gaataaatat ttaatgtgtc aaagatttaa aatatatact 180  
 ggttcaagtt ttaaccatta aatatttatt tactacacat atttgatatt attaaaaagt 240  
 caatgaagtg aataattcat aattacaaat aattttcatg aaattaatat aactagtatt 300  
 ttgacctatg gattaaatta tactttatat ctataaaaaa aaataaattg caatataata 360  
 ttacttttaa ttattggtgg ttttttaaaa atattaaaaa ttatttatag agaatttaa 420  
 ggataaggat aaaatgatag ttgagatata ttct 454

<210> 11340  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11340

tagcatcaa tatctgctcg ggagtatccg ctcttactgg agctctatga acccatttca 60  
 ccaaattctac accttcacca aaatcctcat caactggtag tctagttgta aggatatgca 120  
 gcagaacaac accatagcta taaacatttc ctggtgctgt gacttgcata gtatatgcat 180  
 attctgcatt acagaagaaa tgtcacatga agcatgctaa acataataaa agttaagagt 240  
 ttaattttta tgcaatgtca gtataatttt ttttaccctc tcaatcaatt aaaaatcatc 300  
 attatggttt ttaacgtaat attgtaaaat caacanacta accatacatg acgatttgtg 360  
 attattagat gatagtgtan agactatnta ctatanagag taatacgaag aat 413

<210> 11341  
 <211> 506  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11341

cgtcttctac aaataaatca naatcgatcc tctaattctc aaagcccatt tctagtttct 60  
 ttcttcccat gtcaactaca cagcttgtag ttaacataaa tggctcttccc aagattaagg 120  
 gaatgtcatt atcttcacag atatcatta caacaaagtc tgctgggaag ataaaatgtt 180  
 ttactctgac caaaacatct tcaattactc catatggtat ggtaatggag cggtcagcca 240  
 actgtaaagt cattctagtg ggcattgatt ccaactctcc cagtcttctg cacatggaga 300

gtggcatcag attgatactg gctcccaagt caatgagagc ttttccact gtgacttcac 360  
ctattgacca aggaatgggc acactcccag ggtctttgtg cttcgggtgga aagattntct 420  
ggatcacccgc actagcatta cctttcataa ctatattctn ctggtgaatg tacttgtgct 480  
tctttgtcaa catgtctttt aaaaac 506

<210> 11342  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 11342

tgatgttcgt tagtcgtcat tggatgtcga gagtgtcatc ttgttggatt ctgagaagaa 60  
gatcaataaa atcttgggtcc tctaattcag ctccatcttc ttttgcaatt ttgttctttt 120  
cttgatgtc tctgatgatg ttttccagga ccttgtcaac ctgcttgtgc aacttcttca 180  
atctgggtcat ctttccagtt aggaaatata agaatggaat tgaaggaaag acatcaacaa 240  
ggtcgaatcc tccccggat tctacgattt ttcggatcaa agacacaaca aactcatctt 300  
gctccttgta tatgccaccg aatgctaccc tggaaataga ggcacatc aatgagaaaa 360  
ttctactggg gagaatgata ggcgaaccag cagattcgcg aatggagttg ataaactttg 420  
ctgcctcgtc ttctctaattg ga 442

<210> 11343  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 11343

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tacatttttc ttccttttct tctcatctcc ttttctatta aaaaagttgc ctgattttgt 120  
tatataaatg caatttctct tttcatttta ccaaacttta tataaagata ttttatttgt 180  
ttcaccagga catatttgct gctggaactg atacttcaac atcaacacta aagtgggcta 240  
tggccgaaat gatgagaaat ccccgagtga gggagaaagc accagctgaa ttgagacaag 300  
cttttcgaga aaaagaaata attctgaaag tgatctaaag caacttactt atctgaagtt 360  
ggtg 364

<210> 11344  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11344

aattgagtat tgtaatatat cgagacgctc gtaatggaaa agagaagctt cgtataaaat 60  
 gcaaatcgca anaactttta actcggatga acgattgagt cccgtattat atcgagacac 120  
 tctatattga aagcagaagc tctgagcaaa ttcaaagcag aataactttt gactctgac 180  
 atccgattga gacatttatt aattcgagac gctcaaaatt gaatacggag agcgtctatg 240  
 gaaactccaa tgacaacaac ttttgactcc gatgtccgaa ttgagtccta ttataatttg 300  
 gaacgctcac aattg 315

<210> 11345  
 <211> 172  
 <212> DNA  
 <213> Glycine max

<400> 11345

cgcctacatt cagtcctcaa gcaaccact tgagattttc cactctctct ataaaactcc 60  
 ttttataaaag tctgaaccac acagggacaa cccttccctt gtgttcaaga atcctctaca 120  
 acaagagact ctcagtctct taatcccttt tcacgagtac gaagaagaga ag 172

<210> 11346  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 11346

tctatagaac gttcattcct aatttctctg caatagcatc acctctcaat gagatagtga 60  
 agaagaatgt ggcatatacc tgcggtggat aacaagagca agcctttgct gggctcaaag 120  
 aaaagcttac taaggcacct attgtagctc ttctgacta tgctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg tgacgtagag ctgaaatgtt acaatgtggg caccctattg 240  
 cttatagaag tgaaaaacta catggtgcc aaccttaact cccacctat gataaagagc 300

tatatgcctt aataagagca cttcgaactt gtgaacatta ccttgtttac aggaatttgc 360  
attcataatg atcataatac ttaagtcatt agaggaaaag ca 402

<210> 11347  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11347

atttgatgta tcatgttcgt ggtatttttg catagcacct aacatccctc cattggtagg 60  
tatctggcac caaagagcaa gcggttagct tctatgatca atcgcaaagt caataattgg 120  
aaaaacaggc tatcacggat acgactgtta cttcctgcac ttcccataat ttcatttttg 180  
aacgagcttt ttgataaagt aatgggaatt gtaggaagtc ttaccacgga aattaattaa 240  
taatacttac taaatttcca taagcccaat aacctccaat ggcaagggga aacaaacaca 300  
aggcgatgac tatgtaagca aacataacac ctttccacat ggccaagcgt gagggttgct 360  
tancatccga aggcattggtt ccctacaatt ttgaggggga caatttagca acaataaatg 420  
ctcttaactg tgtaaatgca gaacaaatgt ttgaccatgc aatacttnta cgtacct 477

<210> 11348  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<400> 11348

gacctataaa actaagctaa cattggccaa gaaatcacta tttataataa aattggttac 60  
taaaatttaa aagcactctt ggagcttaat tatatacacg ttaataagta aaggctactc 120  
acctgtgata atgatctcct tgtgtcaatt ggcgagact gaatgcactt gtctattaca 180  
actggcaaag ggggtggtaaa gtcactgcc aatatctcag gattaaagaa aatctgcaga 240  
aatcatatgg aaagcataca gatatgttaa tatgactgat cctgttaaca ttatgaccca 300  
tactgaacc atggattagc tccacaatta gaccaaggca ctactatatg ttcattaatt 360  
cttcagtagt ttaaggaaca agatcaagt gaactaatag ctatacatag ata 413

<210> 11349  
<211> 470

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11349

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acgctttcttg ctggacccgc catgatgagt ggcaccactc gttgggtctg aactgcctc 120  
catgtcctcc cttgaggact gggccccacc actgcccctt gatctggagg ggagtgccag 180  
tgtggcgcat tgttgccctt gcacacggtg gtagccact tgctcccat tgtacgctgc 240  
ctacggcaac ggcgagtggg ggtagtcagg caccatgtac gtgtcattgg ggggtctcctt 300  
acaatggaag tttctgtggc agttgcacac gaggcattat agcgcgtcca ggggtccctc 360  
ctcggccaga ggcaagaact tgatgcatcc atcaagtgtg tggccgtcaa ttttgacgat 420  
gtgggttcttg acgcactcat gatacttctc attgtcattg ttttttaaac 470

<210> 11350  
<211> 461  
<212> DNA  
<213> Glycine max

<400> 11350

tcttccttgg tcgggtacat gagcatatgc aatgctcttc tttgctctca agtggtaaac 60  
tctaggcttc actccacttc atgcttcttg tgggtgtcga tctttgacat tctttgttgg 120  
ggagcgattg gacaaataaa ctgcacatgc aacagcttct ggccaaaata actttggcat 180  
atttttagcc ttcaacatac atctagtcac attatgaata gatctatgtt ttctcttcgg 240  
taccatcttt tgttgtggag atctaggaac cgctagaggg cgacgaatcc catatttttc 300  
acaaaattca gtacattctc ttgatgtgaa ttcgtcacct ctatcggtac ttatagcttt 360  
gatcacatag ccactctcat cttgcactag agctttataa ttttacaagc tacaatgcct 420  
cagatttttag tgtagaaata aaccaagtc ttttactata a 461

<210> 11351  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11351



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acgaagaatt ctttttgagg cctatagatg aggagaggta ggagcctctg taaagcgaca 120  
cacaactccc accgcatata gaatatcggg ccttgatttg gttagatacc ttaaactccc 180  
cacaagactc ttgaagactg tggagtctac cttctctcct tcatcaaact ttgataactt 240  
caagccacct tccatagggtg tgttcacggg attgcaatca agcatattaa atttcttcaa 300  
cacttctttt gtgtagcttt cttgtgagac aaagatacca ttctcgttt gcttcacttc 360  
cattcccaag taatatgaca tgagtcccat atctgtcata tcaaattcac gagacatgga 420  
ctccttgaag tctttaaaca aa 442

<210> 11352  
<211> 251  
<212> DNA  
<213> Glycine max

<400> 11352

tccttttaggc tgttttgtgt aaaactcttc ctctagatga ccattaagga atgtcatttt 60  
cacatcattt gatgtaactc aaagtcaaaa tgagctacta atgtcataat tattogaaaag 120  
gaatctttct tagatacagg agaacaattc tctgtgtaat caatttcttc tctttgagtg 180  
aaccatttg gcaacaagtt ttgccttatg tctctcaatg ctgctcactt cccattggcc 240  
tcccttagtt t 251

<210> 11353  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11353

actaagcttc tacattcatt tcgagctttt cgatatatta ctgtactcta ttggacatcc 60  
gagtaaaaag ttattgtagt ttgaatttgc tcanggcttc cgtattccat ttcgagcgtc 120  
tcgatatatt acgggactca atcgacatc cgaggaaaaa gttattgttg ttcgaatttg 180  
ctcagagctt cagtattcca tttcgagcat ctcgatatat tacaggactc aatcagacat 240  
ccgagtaaag aggtattgtc gtttgaattt gctcagagct acaacattcc atttccagcg 300

tttcgatgta ttacgggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt 360  
 tgctcagagc ttctacaatc acttcogagct tttcgatata ttacgggact caatcagaca 420

<210> 11354  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11354

tgagttaaca tgttatctnt tcaatcacag acacagattt ctctcccttg ttatcctcaa 60  
 aattaaaatg gtttatgggc atttagaaga tcaaaataga aaaattgaac aagtatatca 120  
 taaactcccc aacagctagc actagtgtcc catagtattg ggaaatccca catagccggc 180  
 ctcaattatt gggatgtgat ttatatatct gttgggcaac ttcacttaag ccatttgatt 240  
 ntaagaagga atctaaaatg gtatcaaagc ctaaagccca tttctgtcat tcccatagta 300  
 ttgggagggg gcaatataaa caaccaattc acatgccagg tgggggcaag aaacagaatt 360  
 gggtagtggg gataggat 378

<210> 11355  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11355

ttcgctggcg aaagcggctt ccgcggggcc gtgcatcttg tgcttgacga tgtagacgct 60  
 tcccgtgcgc gagttgcgga tgccgttggc gcccaaacc ttgatgtcat ggacggcaat 120  
 ggccgtggtg accatggcgt ccaggatgcc ctccgggatt tccttgccgt tgccccagag 180  
 gatggccggg ttggtcatca ggtggccgac attgcgcacg aacatcancg aacggccatg 240  
 cagcttgacg ggcttgccat cggcgcccggt gtactcgcggt tggcggttca ggccgcgcggt 300  
 catgctcttg ccgccccttg cgaagggttc ggtgagcgtg cccttgagga tgcccagcca 360  
 gttggcatag ccgaccacct tgtc 384

<210> 11356  
 <211> 460  
 <212> DNA

<213> Glycine max

<400> 11356

tatcgctgg aagctggcca gctggctgct gcactcaaga gcggcggcac cacgggcctg 60  
aagaacaccg cccagttcgt cggctaccag ggtgatgccg cagcgccttc ttccgtgctg 120  
ctgctcaaca acggcctgca catcgacatc cgcacgaca agaccacggc catcggccag 180  
accgatgccg ccggcgtggc cgacgtggtg gtcgaagccg ccctgtccac catcctggac 240  
ctggaagact ccgtggccgc cgtggatgcc gaagacaagg tggtcggcta tgccaactgg 300  
ctgggcatcc tcaagggcac gctcaccgaa accttcgaca gggcggcaag agcatgacgc 360  
gcggcctgaa cggcgaccgc gagtacacgg gcgccgatgg gcagcccgtc aagctgcatg 420  
gcccgtcgct gatgttcgtg cgcaatgtcg gccacctgat 460

<210> 11357

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11357

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tgtgaattcc atctgtatta ggactatatg cagggtgaact aactctgaag tttgtaaatg 180  
aaatgttctt gcatccaaaa acattcacat ganaatatnt gctatccttt gaagtatgtc 240  
ctgaattact gaattatcga caaagccaaa gccaaaattc tgtggaaaat attgccaaaa 300  
gtacataata gttaattnta cgaaaggtaa tgaaaatgca ttagtacata ctaatttcaa 360  
ta 362

<210> 11358

<211> 361

<212> DNA

<213> Glycine max

<400> 11358

aaaagccaaa tgaaatagct gaattcatgc acaattggga tgaaatttaa aattggcatc 60  
atccttgagg ctgctcatat ctctggaaaa gtactccaaa caaaacacaa acaaataagg 120

ggagagagga ttcccttgtc taagaccctg ctgcccttg aagtggccat aaatggatcc 180  
 attgactgtc aactaaagg aagtgaaga aacacattcc atgatccaag tacagaactg 240  
 ggctgggaag ccaatggact taagcatcca atccaagaat tcccaggaaa tggaatcata 300  
 agctttatgt aagtcaattt tcaagaggca tctcggagag gatcttttcc gtgcatattt 360  
 g 361

<210> 11359  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11359

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 atatgattct ttcatgcagc atgatgttca agaactaaat cgggttcttt gtgaaaaact 120  
 tgaagacaaa atgaaggat ggcaagagtt ttggaatatt tgttcatgat tattcttgat 180  
 gggtgaccat atcaaatggg tgctttgtgt tatttgtctt cacggaactg ttgttgaggg 240  
 aaccatacaa aaattatttg aagggcacca tatgaattac atagaatgca tcaatgtaga 300  
 ctacaaatca actagaaagg agtcatttta tggtaacttc ttatgcattg tgaattcaat 360  
 tataatgtnt ggtcttcctt gntatgtatt tctaatttaa gtttgcata 410

<210> 11360  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11360

nnggctagcc caaatctgat atcttggggc agaacttctc atcctaaaga atgttatgtg 60  
 gttntatgtc aaaatgcaaa attcgagtgt tgcattctat atgcaagtat tccaagcctc 120  
 tagctatacc aattgcaatt tcatatataa tgtcccaact caagggtgca atgggtacag 180  
 gtccttttct ataaatgagc ttgtcaaggg acccattgtg cataaattca tagatgagaa 240  
 ctctcttgcg gccttccaaa ctgaacccaa gaagagtgc aacattaata tgagaagttc 300  
 tactaatgct agcaacctcg ttcataaatt cttcaccatc ttttgttgat gcattcaata 360

ttntacagc cacaggagcg ccattgggta gctttccttt gtagacagag ccaaaaccac 420  
 cttgccccag ttntactctt gaagtatttg cattntcttg acattgacaa ttatatcttt 480  
 tagaagtata caccatg 497

<210> 11361  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 11361  
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 tcgatgttaa ccaagctatg taaacgttaa catcggtttt attccgatgt taacatttga 120  
 taagttaaca tcagtttgtc ataaaatcga tgtaacgaa ctttcattaa gatcggtttt 180  
 ataaaaatcg atgttaatga agtcatgtta acatcggttt ttaaaaaccg atgttaacgt 240  
 aagtttgttt acatttgatt tttccccaat cgatg 275

<210> 11362  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 11362  
 cccttcagat accttaatat ttgtctgcc actgtccagt gagaatccaa aggagcggcc 60  
 ataaataggc aaactttgtt gacaacaaaa cttatctcgg gtctagtaag gagagcatac 120  
 tgtaatgcac caactacata cctgtataag gctggatcat gaaaagcatc atcaccatgt 180  
 cgagacaact tgcagttgga taccattgga gaa 213

<210> 11363  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11363  
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 cgaatcagaa atctgtacct gtcgaaggg tttgtggtct gtgctcctct actgaccacc 120

atacagacct ttgcccttcc atgcagcaac ctggagcaat tgagcagcct gaagcttatg 180  
 ctgcaaatat ttacaataga cctcctcaac ctcagcagca aaatcaacca caacagaaca 240  
 attatgacct ttccagcaat agatacaacc ctggatagag gaatcacct aacctcagat 300  
 ggtccagccc tcagcaacaa caacagcagc ct 332

<210> 11364  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11364

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 gtnatananc gagacgctct aaattgaatg ttgaagctct gaccaaattc aaacgacgat 120  
 aactttttac tcggatgtct gattgagtcc cgtaatacat cgagacgctc gaaattgaat 180  
 gttgaagctc tcagccaatt caaacgacaa taacattnta ctggatgtc tgattgagtc 240  
 ccgtaataca tcgagacgct caaaattgaa tgttgaagct ctc 283

<210> 11365  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11365

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 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttctccatt taaaggaaag 180  
 aatgatctgg aggctactt ggagtgggag atgaaaatag accatgtttt ctcatgcaac 240  
 aactatgagg aagaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctaca aaacgagaga gcaagaaatg aagagccaat ggttgatata 360  
 tggacggaga tgaaaaagat catgaagaag ccgtatgtgc cggctagtta ctcaacggac 420  
 ttgaaattca agctccaaaa actaa 445

<210> 11366

<211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11366

acctcggata tcttaagaag ggggaggggg ctgaattaaa atatcaaaga ctattcccca 60  
 attaaaaatt taactctctt tctaaattat taatgcactc ttaatatgaa ttactaaaaa 120  
 cacaattcaa aatataactt ctttaaagca aaagatatat gacaataaat aaaagaattt 180  
 taagggaagg gagaatacaa actcaanttt atactagggt ggccacaccc ctgtgcctac 240  
 gtacattccc caagcaaccc gcttgagagt tccactatct tggaatatcc ctttacaatg 300  
 tctgaccaca caaggacacc cttctttgtg tcagatacct tacacaagag acctcgtctt 360  
 tatca 365

<210> 11367  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <400> 11367

ccaaaaagtc ttaatgaggc gatgaacata ttgtgtacca tgggtctgga gtatcaaaaa 60  
 attgatgcat gtcttaatga tagcactactg cgtttatatg aatttgaaga aatgcctaaa 120  
 tgccgcatgt gtgggggtatc acggtacaaa gtgaacgatg atgaccacgg taacaatgat 180  
 gaaagcacia agaatcgcac ttaacaaagg tgctatagaa acttctatc attccaacgt 240  
 taaagcgtct gtttgctaatt ggagatgaca caaagaacct tacatggcat acatatggga 300  
 taaactgca atggaatgca tcaccatccg actgattatt ctcaatggaa gattaatctg 360  
 ctgtattcca attcaag 377

<210> 11368  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11368

tactntgaat attgtgattt aatatgattt atgcttggtt ttatatatag aggtagttat 60

ttatattaat aatttgtgta aataatattg tagagtgtta tagtatgatt ccaaaaatta 120  
 ttaagtgttg gagtttgaga atattatggg taaatttcat gaacatgtgt atgttggtacc 180  
 ttatgaatat cattgggaat gttatgagat ggttgatgtg atgttatgag atgttaaagt 240  
 gtggacatga tattcgattg tgaataagtg gatgtgttaa catttgatgt tacattaatt 300  
 atatcgtgag ctatgaatta tacaataacc cgaccagtgt ttatgcgcag tgttaaagag 360  
 aaaatgtagg ttccaagtta ggaaccagtg ttaaattgta gcgcaattgt gttaaacadg 420  
 tttgaaacaa gagtgtgag 439

<210> 11369

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11369

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 caattgtttg agttagaaga aatgaggatg aacgcctatg aatcattcaa gatttataag 120  
 cagaagataa aggcataatca tgataagaag ctacagagac agaacttcca actaggccaa 180  
 caagtcttgc tcttcaattt cggactcagg ctatttcctg gaaagctaaa gtcaaagtgg 240  
 tcaaggctcg tcatgatcaa agaagtaaga ccctatgaag ctgtggaatt ggtggaccct 300  
 acgataagaa ccccgagagaa aagatggatc gtcaatggac aatgcttaaa aattttaaatt 360  
 ggaggccagt tagaaagata acaagtgttg ctacctgaac gatcataaat 410

<210> 11370

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11370

gttagaaaga tgactcaaag ctgtagggat tgatccagat aaactgttat tggccaaatt 60  
 cagaatttac aagatgttat tgaagcatgt tgtttgatgc tgcaaatttt tggagctctt 120  
 cacagccttc aatctgttca ggtatgtggc cattaatgct gttcatttgt acatcaagag 180  
 atattagatg cttcaatttg ccaattccan agggatgtgt tccatctaag tggcagtagc 240



ctagaggcag atagaattca agctaaccga actctgaagg gatggagcca gaaagagaat 300  
 ttgagacaaa tcaagtgttt gaagagaagt gaacacaaca cacagt 346

<210> 11371  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 11371

agcaatcaat actaaaattt cttcatttat cattatcttc aataggagat agaggcgaat 60  
 ctatttttagt tggaaactat acctttaatc aagatgttgc taggatggaa ttgacaaaga 120  
 tgattgcatt gcatgaatac cctcttgcta tggttgatga cattgggttt cgaagggttt 180  
 gtaatgttgt ccaacctttg ttcaaagtaa tatcccgtaa tacattgaag ttggatatac 240  
 taaagttcta tgagagtga agggccaaaa ctatgaagct aattcaaaaa aattcaaggc 300  
 acctagctat aacaacagac atgtggactg caacgaatca aaacaaaggc tatatgacta 360  
 ttacaaccga tttcattgat aacaattgac atttgaaaag tcgacttatg aggtaaataa 420  
 tcattcactt gaaagttcta tgattctaatt ttat 454

<210> 11372  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11372

agcttttctt tgtacaccta catttcattc anctacaact ntttctggat acacatgcat 60  
 taaaaactct ttctccttat atcaacacgg tctatataac aactctagtc ctgttcaaag 120  
 attttttttt cgtttttcaa catacacttn gtgggttatac aaaaatttct ttatatacat 180  
 tcattgctca cacacaagaa tttcttttca cacattatctt acacacacac acaaatctt 240  
 tccatacact ttttacatat aaaaaactct tttcttttct ttataaatac gacatttggt 300  
 cacaatgcct ctttctttnt caattcttgg tggtatcatg attttt 346

<210> 11373  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11373

tgtngaanaat ataatcaatg caagacctct tgagagattt agtgaacatg tcctccagtt 60  
ggtcactaga gttgacaaac tcaatgggtga gttttcctga gagcactttc tctctcacia 120  
aatgacagtc ttctactgtg tttagtccat tcatggaaga ccggattaga tacaatgtgg 180  
agaacggctt gattatcgca aataagattg gtggcttgag tgtctccaaa ttggaactgc 240  
tggaagaagt tccttagcca tgtaatttca cttgtagttg caggcatggc acggtattca 300  
gcttcagcac tggatctagt gactataatt tgtttcttgc ttcccatgg gatcaaattt 360  
ccttcaataa gaacacaata 380

<210> 11374  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11374

tcaacattca atttgagcgt ctngaatat tacgggtctc aatcagacat ccgagtaaaa 60  
atttattgtc gtttggttg gctcagagat ttatatatta atttcgagcg tctcaatata 120  
ttacgggact cattcagaca tccgagtaaa aagttattgt cgtttgaatt agcttagagc 180  
ttcaacaatc aatttcgagc gtctcgatat atcagagac tcaatcagac atccgagtaa 240  
aaagttattg tcgtttgaat tggctcacag cttcaacatt caatttcgag cgtctcgata 300  
tatgacagga ctcaatcaca catccgagta aaaagttaat gtcgtttgaa ttggctcaga 360  
ggttcaacat tcaatttcga gc 382

<210> 11375  
<211> 155  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11375

ccgccagtgc gcgttggtac atctcttggt tatctatgtg gcggtgtcta ttnattcagc 60  
ggaatagtga gtgcacttta tggccgcgaa aagagccaga gaggggcgca tgctgatata 120

tcgatgtttg atgccacgct gagttttctg gagct

155

<210> 11376

<211> 115

<212> DNA

<213> Glycine max

<400> 11376

cgacatgcgc ccctctctgg ctcttttcgc ggccataaag agcactcact attccgctga 60

ataaatagac accgccgcat agatccgcaa gagatgtacc aacgcgcact ggcgg 115

<210> 11377

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11377

agcacgcgag ctgcagcttt ctaatcgncg gaaggatgat tgagttatta aagcggcgac 60

gcctactgga gactatTTTT ctcccatggt tcacttgagt gtaacttgta ttttcttcac 120

agatagggca tgcgatgatga cccttaacac tggaaccgct gagattccca tatgctggga 180

agtcattaat ggtacaaaaa agcattgcac gcattttcaa cgtctccttg cgaaacgcat 240

caaacactac aacccccctg tcccacaact ttctcaaact ttcaccaacg gacttagata 300

aacatcaatg tcatttcctg gctgtccttg gcccgatatc atcatagaca acatcatgt 359

<210> 11378

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11378

nttgcaagct agaatcattt attctatctc ttacagcctt tgggtgagtc tcgtccaggt 60

agacccgaag aaaactggcc tcaccgtgat aaaaaatgag aaggaggagc taattcctac 120

tcgggtgccg aacagttgga gagtctgcat tgactatagg aggctgaacc aggttaccaa 180

aaaggaccat tttccactgc ctttcattga ccagatgctt gaacgcctgg catgtaaatc 240

tcactactgt ttctttagtg gtttttctag ttatatgcaa atcactattg ctcttgagga 300

tcatganaag accacattca cctacccctt cggcactttt tcctatanga ggatgccttt 360  
ctgcctgtgc aatgcccct 379

<210> 11379  
<211> 460  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11379

ctaagctatg ctgcnacatt ataatagacc tccacagcag cttatccaac tttctgcaaa 60  
aatnatgacc tttcaagcaa cagatacaat ccagggttga ggaatcatcc aaatttgaga 120  
tggaagacc cttcactaca acaatagtct atccctcctt ttcagaatac cgctagtcca 180  
agcaagccat atgttcctcc tccaatgcag caacaacaac agcagcaaca acaaagacaa 240  
caagcaactg aggcccctcc tcaaccttcc ttagaagagt tagtgaggca aatgaccatc 300  
cagaatatgc aatttttagca agagacaaga gcctccattc agagtctgac aaatcagatg 360  
gggcagatgg ctactcagtc gaaccaagct tagtcccaaa attctgacaa cttgcgttca 420  
caaactgtgc agaatccgaa aaatgtgagt gtcacacct 460

<210> 11380  
<211> 343  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11380

gcttatgatt ccatttccta gggaatctgn attttattct taagnctatt ggctttccag 60  
cccagttctg tacttggatc atggaatgtg tttcttccac ttcctttagt gtgtcagtca 120  
atggatccat ttatggtcac ttcaaagggc agcgggggtct tagacaaggg gatcctctct 180  
ctccttatct atntgtgctc tgtttggagt acttttccag agatatgagc agcctcaaag 240  
aagatgccaa ttttaaatat catcccaact gtgcaagaat tcaactatct cacttgtgct 300  
ttgcagaaga tattatgctt ctatctagag gagatatccc ttc 343

<210> 11381  
<211> 448  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11381

tattctctat ctagagtagt tgatcacaac aactnactac tgacatatat tgcacttttag 60  
tagtggacaa tgtagttgag ccttgcatct tgcataattca tgttactaag ttagcaccga 120  
taaagtaata gcttccacta gtgcttttttc tttcaacttt atcaccaaca tagtcaacat 180  
cataatagct tgtaagtctg aaacttttctc ttcttttgaa cataagacca agattagaag 240  
ttccaattaa atatctacaa atatgttttaa ttttagtttag gtgaacttcc ctttgttctt 300  
tttgaaatct tgcacataga taaacattga acataatatc agaaatggat gcagtgagat 360  
agaccagtga gttgcatcca ctttttttga tccttggtcca atccaaggta tgtcatggtg 420  
tgcattggag tcttcatttc ttttcac 448

<210> 11382

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11382

actagcttac ttctaataata tnnnnagaaa atgaatnttt atttgttgaa tngncaccca 60  
tcatttatca actacaataa cattctaaca tagaaccocat catggatatt taaagcgtaa 120  
aatttgaaag aaatttcctt tctcaattta atcaaaatat catttgaagt atcacaacaa 180  
atttctgatg aagcctagac ggtcaaacca tcaatttgaa atatgattca tcttaataaa 240  
tatgttcggt aattttccaaa caaatgagaa ctatgaaaaa tctaagctca taagaaaata 300  
taaacaagtg tgatcaaaat ttatgatttt caataaattt caatcaatat taaagtgtgt 360  
tccaaaaaat atattaaaga atgtgttatt aacatttttc tataacagaa atataatcac 420  
caacaatctn caatagtttg tccccactgg ctctaagtcc tccat 465

<210> 11383

<211> 373

<212> DNA

<213> Glycine max

<400> 11383

tattctttat ctagagtagt tgttcacaac aacttactac tgacatatat tgcactttag 60  
tagtggacaa tgtagttgag ccttgcacatc tgcatattca tgttactaag ttagcaccga 120  
taaagtaata gcttccacta gtgctttttc tttcaacttt atcaccaaca tagtcaacat 180  
cataatagct tgtaagtctg aaactttctc ttcttttgaa cataagacca agattagaag 240  
ttccaattaa atatctacaa atatgtttaa ttttagttag gtgaacttcc ctttgttctt 300  
tttgaaatct tgcacataga taaacattga acataatatc agaaatggat gcagtgagat 360  
agaccagtga gtt 373

<210> 11384

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11384

agcttaacat aaggcatgcy aagttgggta tnntttatag caatnccctt atgnnatcaa 60  
acataaaaag ggaaaaggta atattgtagc cgatgctctt tctcggcgctc atgcattact 120  
ttctatgcta gaaacaaaat tgattgggtct tgaatgtttg aaaagcatgt atgaaaatga 180  
tgaaactttt ggagatattt ttaaaaattg tgaaaaattt tcagaanatg gtttcttttag 240  
acatgaaagc tttcttttca aagaaaacaa attgtgtgtg cctaaatggt ctactagaaa 300  
tntgcttggt tgtgaagcac atgaaggaag tttaatgggt cattttgttg tccaaaagac 360  
tctaaaaaca ttacaagaac atttttattt gcctcata 398

<210> 11385

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11385

gacaagnggc ctcagatatc ttaagaaggg ggggttgaat taatatattc caaactcttc 60  
tcctaattaa aaatctatct tactttttac ttaagttatg aattccctta atgacaatct 120  
tcttaaatat taattcaaat gaagcaactt gaattatgaa tataaagcaa taataaataa 180  
aggagattaa gggaagagaa aatgcaaact cagttttata ctgggttcggc cacacccttg 240

tgcctacgtc cagtccccaa gcaacccgct tgagagttcc actaacttgt aaattccttt 300  
tacaagttct aaacacacaa ggacaaccct tcctttgtgt tta 343

<210> 11386  
<211> 385  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11386

ntggagaacc aagccaatca gaatgctagt tgtaatattg atgggaatag aggtaacaat 60  
ggcggtaatg acggaccgag gcagaaccgg gttgaggag taaagctcaa tgttctctccc 120  
ttcaaaggta gaagtgatcc agatgcctac ctggactggg aaatgaagac tgagcacgta 180  
tttgctgca atgactacac tgatgcgcag aaagtcaagc tagcagcagc tgaattctcc 240  
gactatgccc ttgtttggtg gcataaatac caaagagaaa tgttgagaga ggaacggcga 300  
gaggtagata catggactga gatgaaaagg gtgatgagaa aaaggatatgt gccactagc 360  
tataacaaaa ccatgcgaca gaaac 385

<210> 11387  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11387

agcttctata naagccaatc ctattcactt ggatgnnnga nncggggaca caatatatca 60  
aggcgctcga nattgaacag cggaagctcc cgagaaatc gaatggcat aacatttcac 120  
tcggatgtct gattcgtgga cataatatat cgagacgctc aaaattgaac agcggaagct 180  
ctcgagagat ttgaatggtc atacctttac acacggatgt ccgattcggg gatataatat 240  
atcgagactc tcgaaataga acaatggaag cgctcgagaa attcgaatgg tcataacatc 300  
tcacacggat gtctgattcg tggacataat atatcgagac gctcgaacat gaacagcgga 360  
agctttcaga aatatgatgg gcataccttc tacacggagg tgcgactagg gatat 415

<210> 11388  
<211> 326  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11388

cctatgggtg gacctcccaa agagtatgga gtaacaccac ttttaacatt tctgatttaa 60  
ttccttttgc aagtggagct gatattgagg aggaggaact aaaaaatttg aggtcaaadc 120  
ctcttcaagg gggaggggat gatgcaatcc tctactangaa gggaccagtc actagagcca 180  
tgagcaagag gctccaagag gttgagctag agctgctgaa aaagacccta gggttctcat 240  
gaacctcang ataaatttct gagcccatgg gccaaaggtg ggtccaatta tctttgtaca 300  
tattagacta cgatgtcatt atattt 326

<210> 11389

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11389

accatgtcat gcattctaga accaaacata tagagataag acatcatttt cttagagatc 60  
atatatcaaa ggggtgattgt tgcattgagt ctattggtag tgaacatcaa ctagctgaca 120  
tctttactaa acctctagcc aaagataggt tcttcttcat taggaatgaa ctgggtatct 180  
tagatggatc tagtattgaa tgatgttatg cttagaacat gtagcttggt atatatactc 240  
tccatgtctg ttaattttcc tttaatgtct cagtatctng atatattgat atgtagctga 300  
ttctttctcc aaaaatacat gttttatttt gtaatttgaa gttttcacta 350

<210> 11390

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11390

agcttcaccg atcctatnga agcaannngt aactttacat tctccagata tccagaagaa 60  
gnataaagat gaggaatttc tcaaateccag atctatactt gctacaacaa atgaggttgt 120  
agaccaaadc aatgactatg tattaacat tatccgagga gaagaaaagg ggtatttcag 180  
ctatgactca attgacatga aaaatgctgc aacaactaaa gcttttgaag caattacact 240



agagtttcta cattcattaa agacatcatg aataccgaat catataatta ggctgataag 300  
 tggcacacct gttatgttga ttcaaaaatt agatcaagtt gatgcctatg caacgagaca 360  
 agactaatta tctct 375

<210> 11391  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 11391  
 agcttgttgc aaatcttcta cacttggagg gataacatgc agtcctcttg aacccttacc 60  
 tcccactctt tcgtcatgcc gagactcggg aagcccaaca ggtttagctt tttcaaaata 120  
 ctctgaacaa aattcaatgg cttcttttgc aatgtacctt ttcaacaata aatgcttctg 180  
 gatggtgtag attcttggta taccctttta agatcttcat gtatcgctca accgggtaca 240  
 tccatcacia ataaactaga ccacaacatt tgatttctct gaccaaata acaattaagt 300  
 gaatcatgat gtcaa 315

<210> 11392  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11392

ttccctgttn ntatatttga aaagcttact ttgggccata tgataattgt tatgttatgt 60  
 acaaattcta attaatgcat ttgcaaattg ttgtatacca tgtgttacta agccgaattg 120  
 ttcccttgac ttttaggttg aaaagctagg aaaagactca ctaattaact gtgccaagac 180  
 cagtatgtcc ttaaagttga tagctggtga taatgacttc tttgccattt tggtatgtnt 240  
 gtaattgcat tggctatata ttgaatgttg agagtttata tcacatgatt gattcacacc 300  
 atgctctgct gcttctgcaa attctagtgc atatccaatc gaatgaagct tatatgcac 360  
 atgtatcaat atttcattag tttctactgt gtgttgaatg tgtaaaattg tatattgttg 420  
 aaccatattg agttggtagt atgagtgaat ctg 453

<210> 11393

<211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11393

atgagatata actaacagag gagataagga taatggaaag catcaagaat tgcatatcaa 60  
 agataaagtt tattccccgca ccaactaatct acgtgggggtg ccaaaagctt gcacttcacc 120  
 atgggtttaac ctttgccgtt caagcagttg cagcaataaa tctttcagct ataataacca 180  
 gcacagtaga atcaatattg aacaatgaat gagaataatg atagtaattc actaaaaatc 240  
 ataatagaaa ataacaataa atatctagca aatagctgaa aacaatntat atcagttata 300  
 cttgcttgct tgcatacaaca acatcttgag gtggcatctc ttcagtccca atntcaagaa 360  
 caaatgctct tgaatgatca tgcacctata accagagaaa agctggantt tacataatat 420  
 ataaatacat ntgtgggaca taatcaataa agaaactcgt actcaagcta aata 474

<210> 11394  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
 <400> 11394

agcttcaaca catttaaggg ttggctacat tctgagtttg cccttaagtt tactgaccac 60  
 ccactgtcta tttgcttggt tgttggtcac ttctctgcag caattatggt tatgcttaaa 120  
 tgtctttatc tgaaaagagt ttctaacttc attctttgca cagtagattt cccaatcaca 180  
 aaatgtcttc ttgcattttg ctctagccct ctgtttatca ttcttcttcc acttgaactc 240  
 cttgcccac aatatgctat actccctcaa ggcagattta aattcatata gagtaccaa 300  
 cttcatccct a 311

<210> 11395  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11395

tactcagctt aacattcaat ntcgagggtc tgcatatatt acgggactct ttcggacac 60

cgaganaaaa gttattgtcg tttgaatttg ctccgaccat caacattcaa ttccgagcgt 120  
ctcgatatat tacgggactc aatcagacat cctagttaaa agttatgtcg gttgaatttg 180  
ctcagagctt caacattcaa tttccagggt ctcgacatat ttccggactc aatcagacat 240  
ccgagtaaaa cgttatttgc gtttgaattt gctcagagct tcagcattca attntgagcg 300  
tctcgatata ttaccggact caatcagaca tccgagttaa aagttattgt catttgaatt 360  
tgctcaaagc ttcaacattc aattttgagg gtctcgatag attacgggac tcaa 414

<210> 11396  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 11396

tatatatcat aggctgctca ttttaactta ttttaatatg ttcccttata ctctgtggt 60  
taatattgat gttgcgaaag acaaataaaa aaagcataat cttactctta gattgatctt 120  
gggtgagcaa attgcaaaat cattttttta tgaaattgat tttgatcata attgattatg 180  
aagtacaatg atatattttt tagtggtttt aatctaagaa aaaatagtat taaaacttag 240  
tataaaagaa attgatccaa tgcaaaagct attaatgttg ctttaattca aatcaatttc 300  
ttcttaaaat taattt 316

<210> 11397  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11397

cattatctcc tttgggttcg caggttcttc catgcactga atccagtgat catctcgatt 60  
acaatgcacc caagagacca tatatctaac gctgggttcaa tctgaccaac gaccgattct 120  
ggtgacatgt aaaaagggtg cctctaaac ttgaccttcc catactcagc atttgcatct 180  
tctctagtct tggacaaccc aaaatcagca atcttcagtt gataccttgc atgatcatca 240  
gatgaaggaa agagaaggat gttgtccggt ttgagatcac aatggacgac tccttttcga 300  
tgaatgcaag aaagcccttt gagaagcata cgagtgtaga ctcttacttc actatccgat 360  
attggcccct tcttggttact aaaccaagaa gagaaccata aggagcacac tccatgaaaa 420

gattgtatgt cacataatct ctctcaacag tgaatnggtc aaaatagcat tg 472

<210> 11398  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 11398

cctgcatgca tgctagcttc tgttttcaat tacttgcgtc tcgatatatt acgggactca 60  
atcggacacc tgagaaaaaa gttattgtcg ttagattttt ctcagagctt cagttttcaa 120  
ttacgagcgt ctagatatat tacaggaccc aatcggacat cgaagtcaaa agttattgtc 180  
gtttaaatct gctcagagct tctgttttca attacgagcg tctcgatata taacggggct 240  
ctatgcgaca tccgagttaa aagttattgt cgtttgaatt tgctcacagc ttttgtttta 300  
attt 304

<210> 11399  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11399

ctcagctgga atgaaaacgg agagtcgaaa attcaatggt cattacttat cacaccgaag 60  
tccgattcag gcacataata tatcgagacg ctcgaaattg aacaacggaa gctctcgaga 120  
aattcaaatt gtcataactt ttcaaattgga agtcogattc aggtgcataa tatatcgaga 180  
agcttgaaat tgaacaaagg aagctctcga gaaattcaaa tggtcataac ttatcacacg 240  
gaagtccgat tcaagagcat actatgtgaa gatgctcgaa attgaacaac gaaagctctc 300  
gagaaattca aatggtcata acttgccaca cggaagtccg attcagacgc ataataacc 360  
gagacgctcg aaatngaaca atgaaagctc tcaacanatt caaatggtca aaacttgtga 420  
cacagaagtc cgattcaggc gcataatata tcgagaagct ttgaaatgaa caacggaggc 480  
tctcgagaaa ttc 493

<210> 11400  
<211> 305  
<212> DNA

<213> Glycine max

<400> 11400

agcttgcctt gcccttttat atatttgagg gactcatggt cactatgaat gacaaattcc 60  
ttgggataaa ggtagtggtt ccatgttttc aaagcccgta ctaaggcata caactcctta 120  
tcataagttg aatagtttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240  
aaagattttt gaaagtgttg caacgcaagt atgggggcat tagttagctt ttgcttaaga 300  
acatt 305

<210> 11401

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11401

tgagcacgaa cggatgaatgg agtgtcacat ttatcgtcag caaaactatg atgtgtatga 60  
tcaatgccag tgacaacaaa cccaatggtg attccttctc cagcagattc aaacccacct 120  
gcttgcgacc aagctccctg tggcagaccc aataattgtg gagtgtgtgt gggtgcagtc 180  
ctcacagaaa aatccaaaac cacattggac acttctcttc tccttgacag attttttgcc 240  
ttcaatatat cgaaaatcaa gaacttggtg gttgaagaag tttatcaaaa cagacacaaa 300  
caccaaacta cgcacaaatg gaaacaactc aaacaatgaa gcancgtgtt cttcacagaa 360  
taaggacata ctcaagatct tgataatnga aaagtaaaac catactatac ct 412

<210> 11402

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11402

attctataaaa tagacctgca atcttcaatg gagagggtta ccactactgg aaaacccgaa 60  
tgcaaattnt tattgaggca ataaatctaa atatctgtna anccatanaa atanggcctt 120  
atatacccac cacagtaaaa agagtttcaa taaatggtag ttcatacaagt gaaagcataa 180

ccatagaaaa acctagagat agatggtctg aagaagatag aaaacgagta caacacaact 240  
 taaaagccaa aaacataata acatctgccc tgggaatgga tgaatatttc anggtatcaa 300  
 attgtaagag tgctaangaa atgtgggaca ctcttcgatt aacacatgaa ggaactacag 360  
 atgttaaaag atctangata aatgcactaa ctcatgagta tgaattatgt agaatgaatg 420  
 canatgaaaa tattcanagc atgcanaaga gaattacaca ta 462

<210> 11403  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 11403

tttccgacta tgctcttctg tgggtggaact tgctacaaaa ggagagagca agacatgaag 60  
 agcccatggt tgatacatgg atggagatga aaaagatcat gaggaagcgg tatgtgccgg 120  
 ctatttactc aaggggacttg aaattcaagc tccaaaaact aacccaaagc aacaaggggg 180  
 ttgaggagta tttcaaggaa atggatgtgc tcatgattca agcaaattatt gaagaagatg 240  
 aggaggtaac tatggctcga ttcttaatgg tctgctaatt atattcgcga tattgttgag 300  
 ctgcaggagt ctgttgaaat ggatgatttg cttcacaag caatccacgt ggagcaacta 360  
 tta 363

<210> 11404  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<400> 11404

agaaattcaa atggtcataa cttatcacac ggagggccga tttaggtgca taataaatcg 60  
 agacgctcga aattggacaa tgaaagctct tgagaaaccc aaatgggtcat aaggtatcag 120  
 tcgggggggtc caattcaggc gcacattata tcgagaagct ttaaattgaa taacggaagc 180  
 tatcgagaaa ctcaaaatgt aataactagc cacacggaag tacgattcag gcgagtaata 240  
 tatcgagaag cttgaaattg aacaacaaaa a 271

<210> 11405  
 <211> 312  
 <212> DNA

<213> Glycine max

<400> 11405

agcttgtaat cgattacgca ttgcttataa tcgattacca gaagtttttt aaacttttta 60  
taacatcctt taaaaatttg aattttaaatt ttaaagcttg caatcaatta caacttgtgt 120  
gtaatcgatt accagacatg aaaattcaaa tttcaaactt gaagagtcac aactcttcag 180  
aaactaactg tgtaatcgat tacaacaatt atgtaatcaa ttaccagtaa ggaatttttcg 240  
aaaataactc ccaagagtca caactgttca agaagttttt gaatggctat caaagggtcta 300  
taaataagggtg ac 312

<210> 11406

<211> 313

<212> DNA

<213> Glycine max

<400> 11406

agcttatgct gcaaataattt acatttgacc tcctcaacct cagcagcaaa atcaaccaca 60  
gcagagcaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcacccctaa 120  
cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180  
tgttggccca agtagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
tatgcagaac atg 313

<210> 11407

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11407

atgtatntat acatnnattt gattatttca ataaaaaatc taacaaggct gtttcaaagt 60  
ataaacattt gtttcaagaa taattcaaga ttgcttcaac aaacaaagcc ttgttgcaag 120  
attcactaaa gaccaagcct tgccttaaaa caaagtgtt tcaagacatg caaggctctg 180  
gtaatcgatt accaggaagt gtaatcgata accagaagac atgattgaga aatatcttgt 240  
gaaaaagggtg aanttaaatt ttcaacatgt aatcgattgc catatgtttg taatcgatta 300

ccagcaacaa aactttggat attcanattc naaagtcata accccttcaa ttataactgt 360  
gtaatcgatt acacacacat tgtaatcgat taccagtgagg aagttttcac aaaatctggc 420  
aacagtcaca tct 433

<210> 11408  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 11408  
agcttatatt cacaatgttg actgattgtc ttgtattctc atttcttcta tttcttattt 60  
ttttttttat agatatgtag agcagtagct tatattcaca attgtattgg agtgtctcac 120  
agggacataa aagatgatgt catgcttgct ttcttcttga aaataaattg aaattctgat 180  
actgaggaca gatgtcgtac aggatgtcac gacatccgcg ttcagaacat gcagattata 240  
tatgacagta tgaacagatt aaacaagtaa ataacacaag agaattgtta acccagttcg 300  
gtgcaacgctc 310

<210> 11409  
<211> 516  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11409

acactatgat actaagcttc tagttagat gatgcagatg ggcttgtagc tacctcatgc 60  
actcctctaa tgactatggc ataatttctg gcgataaact gttgggagtt ggaagccatc 120  
ttctcaatta aatttctggc ttcagcagga gtcattgtct caagggctcc accactggca 180  
gcatctatca tacttctctc catattgctg agtccttcat aaaaatattg gagaagaagc 240  
tgctctgaaa tttgatggg agggcaactg gcacatagtt tcttaaactg ctcttagtac 300  
tcatacaggc tctctccact gagttgtcta ataccttaga tatctttcct gatgggtgtg 360  
gtcctggaag cagggaaaat tntttctagg aatactctct taaggctcat ccagctcgtg 420  
atggaccttg gagcaaggta atacagccag tcctttgcc aacctctaa tgaatgagga 480  
aaagctttca gaaatatgtg atcctctcgg acatct 516



<210> 11410  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 11410

agcttaagct ccttcaactg cacttggctc ttaatatattg aagagtatcc ttgtggaacc 60  
 ttcacctgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120  
 gctgggggca agtaaatttt ctcccatca gaccttggat gcaactatgc tcttataccc 180  
 atatcagcta gatcttgacg ggtattcaag ccaccttcg tcttgcttg aatgttaagg 240  
 agcatcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatataatgt 300  
 ctaacgtca 309

<210> 11411  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 11411

gcttgcttcc cagatctgct tgtgattggc agcagtgtat aggaaattca aagggttcaaa 60  
 cagttcatga taactgagtt tgaaatgaca gatctagga agttatcaca cttccttgga 120  
 ttagagatta atcaagttca gaagggggtg tttatgcacc aaagcaggta tgcacaagag 180  
 atcctcaaaa ggtttggcat gatgaattgt aattttgttt caacaccagc tgaagctgga 240  
 ctcaagctgg aaaatgacct ataggaagag ctggttgatg caatagaatt catgaagcta 300  
 attggatcct tgagatactt gtgcaatagc agacctgata tttgtttgca gtagccta 360  
 cacaggttat gagggaaacca aatgtcacac at 392

<210> 11412  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11412

ttctttagtc cagtcttctt ctggcttcaa ttcacagtg ggccttctt ctgtgtccag 60  
 catcttggga tgttcccagc ctttgatgac agctttccag gttctgctat ccagtgatt 120

gaggaaggcc accattcttg ctttccagta ttcatagttg cttccatcaa gaattggtgg 180  
tctgttcaact ggtccgcctt ctttctccat gttcatcaga atntatctcc ctagatctca 240  
ctctgtgatt tcgagtgttg gctctgatac caattganat tctgatacca ggggacagat 300  
gtcgtaccgg atgtcacgac atcacgcttc agaacatgca gattatatgt gtccgtatga 360  
acagattaaa caagtaaata acacaagaga atngtaaccc agttcgggca acctccctac 420  
atctg 425

<210> 11413  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11413

gctgagagga cttcacattg attcctatgg catcgagggtg ccaaccgtac ctgccatgga 60  
acccaataat cttgccacct gtcattggca acgaaaaata tgtcccttgt tcaactccaa 120  
atggtccata gagtttcttg ttgctctcaa aactaagtga ccgaatgaag attggtcccc 180  
attgatttaa gctaccatag tatccatcaa ctgatgttag gaactcctct gggtaatcaa 240  
gcttgatctg cagcacaatc ataaatattt aatcgatata acacacgagt gtgatgagta 300  
acaaccaaag aagcacanac acttcatgat tgtatacaca aatgtttntt ttgttattaa 360  
caaatgttaa ttgttagttn ttcttggtac atgttagata tgtatctatg tnggacactc 420  
tacggactac 430

<210> 11414  
<211> 503  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11414

tacctcatatccanataac aatgagctaa ttgtggtgaa tttgattcat ttaccttatac 60  
tttcccaggg agttagaaga aagaaaaaaa ttaatgtaaa aattacaagc ctttcccttt 120  
tagcaaatta actctcctaa ttaagatatt gtactatata tcttaaaaaat gtaatatgta 180  
tgtnttttttc agcatcaaaa tataatggta aataaaaagtc ttgtgagaga gtatatatat 240

gctcccaact tgttcctgaa aatgacaaac atgatnttat ggaaaacagt catatntagc 300  
 tgtagtnttt tataatcaaa tttgtcttaa aagtatgtnt atataaaaaa atctaaaaac 360  
 attatctttg aggtgattaa cgtgagaatc ttaagttnta tgtntctcaa tataaaaaaa 420  
 atccaaactt taaatacttn caaattaaat ttaataaaat aaaatntata tcaacacata 480  
 agttataata aatgttcatg aaa 503

<210> 11415  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<400> 11415

gcttgaaatg tcttttttga tggtagtggt cctagatgca gggaagaatt tctccaagaa 60  
 cacctctta aggtcatccc agctgaaaat agacctgaga gcaaggtagt ataaccaatc 120  
 ttttgccact ccctccagag aatgaggaaa agccttttga aagatatgat cttcttggac 180  
 atcagggggc ttgatgggta aacaaacaat atggaactcc ttaagatgct tataaggatc 240  
 ttcacctgca agaccatgaa acttggggcag caaatgtatt agtc 284

<210> 11416  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<400> 11416

agcttataat atatcgaggc gctcgaattt gaacaacgga agctcttgag aaattcaaatt 60  
 ggtcataact tttaactcgg atgtccaatt catgcgcatc acatatagag acgctaaaaa 120  
 atgaacaacg gaagctctcc agaagttaaa atggtattaa gtttttacac tgagggtccga 180  
 ttcaggctta taatatatcg gggcgctcga aattgaacaa cggaagctct tgagaaattc 240  
 aaatgggcat aacgttaaac tcggatgtcc cattcatgcg catcacatat ta 292

<210> 11417  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11417

tctagtaact cagcttgcca tgaattagaa atctgcacct ggtgcaagag tctgtggtct 60  
atgtttcttct gcagatcacc atacagatct ttgtccttct ttgcagcaat ctggagtcaa 120  
tgagcaacct gaagcttatg ctgcaaacad ttataataga cctcctcaac agcaaaaacca 180  
acaacaacag aataattatg acctttcaag caataaatac aatccggggt ggaggaatca 240  
tccaaatcta agatggacaa gtcctccaca acaacaacag cctggttgatc gagggcatac 300  
ccgaatcaaa taaacattaa aaatgcagta tctaggaagt gatccatagg cgtctcccaa 360  
tgagcaatgg tcaaccaaat gttcataaca natagtaata aaatagtaac 410

<210> 11418

<211> 497

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11418

gtctcacgac tgtcacgtgc tcatgctaca tttgttagtc gtggctacac gagacatctt 60  
gccaaacaaa gtcagggttaa cgataacttg cctatgcttt ttctttcatg ctatatgtag 120  
caaagtcatt gatccagtca tgtttgatga gttggaaaat gaggccgcaa ttatactatg 180  
ccagttagag atgtattttc cccttacttt ctttgacatc atgattcact tgattgtgca 240  
tctggtcaga gaaatcaaat gttgtggtcc tgtttatcta cgggtgatga acccggttga 300  
gcgatacatg aagatcttaa aagggtatac aaagaatcta tatcatccag aagcatctat 360  
tgttgagagg tacattgcan aagaagccat tgatatttgt tcagaatact ttgagaangg 420  
ctaaacctgt gggcttntct agtctcggca tgatgacaga gtgggtggta aggattcaag 480  
aggactgcan gtgatca 497

<210> 11419

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11419

gacgcttaga attgataatg caatcccaag gcaaatttca tacgaccgta actnttgatt 60

tgattgttcg attgaggctc ataatatatc aaaacactct aaatttataa cagaagccca 120  
agacaattca aatggttata acttttgact cggttatctg gttgaggccc atagtatatc 180  
gagatgctca aaattaaata agaaagcccc tggcaaattc aaatggccat aactntatac 240  
tcagatgtcc aattgaggtc cataatatat cgagacgctc gatattgaat aaggaagctc 300  
tataaaaata taaacgggtca taattgtagg atcagatgtc caattgaggc ccacaatata 360  
tcgagatgct caatactgaa t 381

<210> 11420  
<211> 507  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11420

gcttcttagt ctcactctca acaattgtaa aagcaagtgg aaaattattc ttattaccat 60  
ctttctcaat ggcagtcaac aaagtacat gatattttcc agttaaaaat gtctcatcta 120  
cttgtaacag tggcttaca ttttgaagc ctttaatgca tgggttaaac gcccaaaata 180  
cacgattaag aatcaccta ggagacgcat cccaccttt ctccattgaa gatggagttt 240  
tgtagtttac tatggtatct agtacaaaat gttgagcagc tgtcaatcat acaagcaggt 300  
agctgtatga ttgttcccaa cttccaaatg tcatttcaag ggcttntgt ttgattgtcc 360  
atgctttttt gtatgaacag tgtaaccaa cggttgttgc atgtctgcaa tcaaggttnt 420  
gatttcgata ccaggaattt gtttcactaa atgaacaaca ttatgagcaa ttacagaaga 480  
gtctaacctc gcatgatctt gtgatat 507

<210> 11421  
<211> 484  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11421

gtgtngaagg gtgaaacttc ctgctnttat tgttgaccac agagtggtag ctggagatat 60  
gtcgcgngg tcaggagacc ttngggacgt caggtggggg gctattgccc aaaaccaagc 120  
ttgaccaatc ccgaccaac cgggcatag tcggtcagtg agaacctgtg atgtacctaa 180

gcaggcgagc tcttggcaat caacagataa taggaacaaa gaccacaaag ncaggaggct 240  
 ngtggtggct ggccagctgt ngaatttgtg tgatatgtgg agtatggcct ctggtaatcg 300  
 aataccaagg gtgggtaatc gattacaagg cttanaaatg aagacagggg gctaagatgg 360  
 tctctgaaat tctgatacca gnggacagat gtcgtacagg atgtcacgac atcacgcttc 420  
 agaacatgca gattgtatgt gtccgtatga acagattann accagtaata acacaagaga 480  
 attg 484

<210> 11422  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11422

gcagactagc ctactcgata attgcggtct gatgagaaca gggactactc agaccaaagt 60  
 agcatgtgct accttccttc tattcactca agtggtttaa gatgtaaaaa tgtatttgca 120  
 ttattaaaaa agttgggttaa atttagatat tagtatntaa attgtcaata gttataatat 180  
 ttttttaaaa attatcctta atattattag aatttattca ttttttttaa tctctataag 240  
 aaagaaagag acaattcaga aacgttcaat tataaattaa aataaataag gatatnttaa 300  
 ttcaaaatca attaatgcac aacataattg aaataaaatc ttatgaaaac aatntatttt 360  
 ttccaaatta tttcttataa atagggacac atgaagtagt ttactccctt gaaaatacta 420  
 aaatngacct gagtggcttt ttcttacaac aatcttnngt tttgaatata atttattttg 480  
 taagatgatc gaatattaaa t 501

<210> 11423  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11423

agctntgcag caacanatgc agtagccata acatattctt cattttttaa cttatgttcc 60  
 ccattgagga attgaacaag gatgtcaata tgatatggtc caacataaga ggcacatgtg 120  
 tataggaatg aaaacaaacc tgataaaagg atcccttgcc atgttgacaa gaataacacc 180

ttcgccagct taagagtggc cacaatccta acactaccac actctgactc aagtttggtt 240  
ctaaaagttg gaaaaacccc ataagcactg tcatcagtag caagaagtgg gacgtcctga 300  
tgctctaata tcttctcctt gcctagactt attaattggac caatccatga gaaagtaaga 360  
atgctgataa aaatccagca ttngaataac gggttaaant ttcatttagt ctactcttac 420  
tggaatcaga attgtngcat acactagagt cacca 455

<210> 11424  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11424

aggttatgaa gtatttcgga ctatgtgcat ccatgtctgg acaacatatg tctgtatgta 60  
tgatttctaa taaattagaa ctctctatg caccctcttt agacttgga gtttgcttac 120  
ccttaatgca atctacacaa gtctcataat cagcgatagt canagtacta agtactcctt 180  
catttactaa tcgcttgatt ctttcaatag agatatgtcc taatctccgg tgccacaaca 240  
tagaggattc ttcattcaca atacatcgtt ttaacccaac agaaacgtgc atagtaagta 300  
gcgtcatttg ctaatcaatc gaataaagac catcaac 337

<210> 11425  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11425

agcttccatt gttcaatatc gagggtctcg atatattatg cgcctgaatc ggacctccga 60  
atganaagtt atgaccatct gaatttctcg agagctacct tcgttcaatt tcgagcgtct 120  
cgatatatta tgcgcctgaa tcggacctcc gaggatgaag ttatgaccat ttgaatttct 180  
cgagagcttc cgatgttcat attcgagcgt cttgatatat tatgcgactg aatctaacct 240  
ccgagtgaag agatatgacc atatgaattt ctgagagct tccgttggtc aattatgagc 300  
gtctctatct gtgatgcgcc taaatcagac atccgagtga acagttatga ccatgtgata 360  
ttctcgagag ct 372

<210> 11426  
 <211> 228  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11426  
  
 gatagcccaa ggactacagt acttgcataa gggatgcaac acttgagttg tacattttga 60  
 catagagcca atacattctt ttggatgaga agctctaccc caagatatct gattatgggc 120  
 tagcacagcc ttgtgctaca aatgatagta ttatttccag gtctggtgcc agaggaacat 180  
 tanggtatgt agctccagaa caattggcag aatttcacac aaatctga 228

<210> 11427  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11427  
  
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 atcaaaaaca ccagatcctc taattcaagt ctgcaccaag tnttctgag ataatgtctg 120  
 gtcgtggaaa ggggtggaatg ggtttgggaa agggatgtgc ctagaggcac atgaagggtc 180  
 ttctcgacaa cattcanggc attacgaaac ctgcgattcg tacgttagcg agaagagggtg 240  
 gegtgaagag gatcagtggg tcatctacc aggaaccag aggggttctg aagatattct 300  
 tggagaacgt gattcgcgat gctgtgactt ataccgagca cgctacgagg acgacggcta 360  
 ctgccatgga tgttgtttat 380

<210> 11428  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11428  
  
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 gtctcacctt catatagaca tctatatctg ggtcaggttt aatatttgct tctttctctc 120  
 ttctggacac ctctgctagc aaatctgcag aatgtaaaat aattttggtt aaaacttgat 180



attgcatatg aaatTTTTgc acggtatanc aaatgcaatg ctgtgggcta accataacga 240  
 gctccaactc cttggacccg tgcggagaag gccaaagtnt ctctaactgt cattttctcca 300  
 atatgaagat catattgact gacataagca gcagttctgt ggggacaaac tcattcatcc 360  
 catgaccatt ataagtcacc tntccagtga actgatcaat aagtcaaacc ttaatagctg 420  
 catatccana actgghanact acgagccaag catgataaca tcatttaaca attaaatata 480  
 t 481

<210> 11429  
 <211> 491  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11429

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 agacgttctc ttaaagatnt atgcaataat atgacttctg tgtctatgat tgaacctaaag 120  
 aatataaatg aagccataat agatgatcat tggatagttg ctatgcaaga ataactaaat 180  
 cagtttgaaa gaaacaatgt gtgggaacta gtagagaaac ctgaaaacta ccccatcata 240  
 ggaacaaaat gtgtatttat gaataagtca gatgaacatg gcataatcat taggaataac 300  
 gctagattag ttgcaaaagg atataatcaa gaagagagta aagattatga agaaacatat 360  
 gcgtccagtg caagattagt agccattaga atgcttttagc ttgtgcacca taatgacatt 420  
 taactttatc aatggatggt acagtgcctt ctaatggcta atcaagagaa gatatgtgaa 480  
 caccaggt t 491

<210> 11430  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11430

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 agttattgtc gtttgaatat gatacgaact tccattctca atttcgagtg cctcgatata 120  
 ttacaggact cagtcgaaca tccgagtaaa aagttatatg cgtatgaatt tgctacgagc 180

ttcctgtttc aattaggagc acctcgattt attatgggac tctataggan atctcaggta 240  
aagttatcgt cgtctgaatt tggtaagagc ttccattcta aattcgcagc atgtcgatat 300  
attacgggac tctgtcagac atccgagtta aacgttattg taatttgaat attctacgag 360  
cttccgtttc aatttggtcc tctcgatatg ttactggact catctgacat ctgataagta 420  
ttgtcgtgat ttctacctct catatcaatt 450

<210> 11431  
<211> 481  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11431

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cttgcagtta acataaatgg tcttcccaag attaaaggaa tgtcattatc ttcacagata 120  
tocattacaa caaagtctgc tgggaagata aaatgtttta ctctgaccaa aacatcttca 180  
attactccat atggtatggt aatggagcgg tcagccaact gtaaagtcac tctagtgggc 240  
atgatttcca actctcccag tcttctgcac atggagagtg gcatcagatt gatactggct 300  
ccaagtcaa tgagagcttt tccactgtg acttcaacta ttgaccaagg aatggtcaca 360  
ctcccanggt ctttgtgctt cgggtggaagg aatttctgga tcaccgcact gcaatttacc 420  
tttcataact atatttcttg gtgaatgtac ttgtgcttct tttgtcacat gtctttaaaa 480  
c 481

<210> 11432  
<211> 286  
<212> DNA  
<213> Glycine max  
<400> 11432

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tgtatgactt gatggatgat tttcaagggt tgagggccag aatgcagaat gagtacaatg 120  
aaaccgtgga acgaaggtag ttcaccataa caggagaaaa ggctgatgaa gacaccatac 180  
ataacttgat atcaagtgga gaaagtgaga tttctcttca gagggcgatt catgaacaag 240

ggaggggtca tataatggac accatatcgg agattcatga gagaca 286

<210> 11433  
<211> 353  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11433

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atcgagatta aatgtatgtc attatgctcc cttgctttcc aagattactg gcctgattta 180  
tggatggagc aagatgtctt tatcttatgc aggtaagtta cagttgatta gagcagttat 240  
tcaaggaatc gtgaatatct ggatggagat tnntcctttg ccgcaatctg ttctggaccg 300  
aatcaacgct tctcgcgta attttctgtg gggaaagcga atattgcaaa aac 353

<210> 11434  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11434

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actagtggcc tcagatatct taagaaggag gtgggggtga attaatatat tacaacttat 120  
ttccccaatt aaaaattcta cttaacttcc tattcaagtt ataaattccc ttaataatga 180  
atctcttaaa taatgattca taagaagaat ctgaataaga ctataaaaca catataaatc 240  
atggagttta tgggaagaga angtgcaaac tcagatttat actggttcgg ccacaccctt 300  
gtgcctacgt ccagtcccca agcatcccg ttagagagttc cactatctt 349

<210> 11435  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 11435

agtcacctgc cgcattgcaag ctttcaccca acaggcgaat gaagattgca tttattggca 60

catctgagtt tgacagtgc cccgattcctt tgtcagggtca tgaagttttt gatcgggtga 120  
agaacatcgt tactatatat gggaaaacac aaaaatagga tgggtccac aaccagcttt 180  
ggaagaaaaa gtctatatat ttttatctgc ctactgggc gtcattagat gtgagacatt 240  
gttttagatgt tatacatggt gagataaatg tatgtgatag tctagttggg aactgctaa 300  
acattaaagg caagacaaaa gatggtttga aatgccgctc agatttagta gagatgggca 360  
tacgacaaca gttgcaccca g 381

<210> 11436  
<211> 541  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11436

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agattaanat actctctaata tttttgttt tctgattnta atttttagtga gagagaatgg 180  
gtatagagac taacattatt ggtcccatct tgcttcgtag tcataccttn tcataatcga 240  
tcacttatat attntttgat gttaaataac tacaaatgta gctaagactt aaaattttaa 300  
ttatttatct atntgattta atgtctagnt ctatttttat tntctaaatt aanaaatact 360  
ttgatcgatt catatgtgtg tattatatca gtntatcact ataccattca tttgtatata 420  
caaactaatt tatgntgttg tcttcttttt gtactogaat aactannat tagacttcat 480  
ctatgtactc ctctatttac atgggtatcat gttttaatat acacatttgt tgtaaatacc 540  
t 541

<210> 11437  
<211> 501  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11437

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caattcttca gtgggcttct cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120

gacagctttc caggttctgc tatccagtga tatgaggaag gccaccattc ttgctttcca 180  
gtattcatag ttggttccat ctaagattgg tggctctgtc actggtcctc cttctntctc 240  
catgttcac agaatattatc tccctagatc tcaactctgtg atttcgagtg ttggctctga 300  
taccaattga aattctgata ccaggggaca gatgtcgtac cggatgtcac gacatcacgc 360  
ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtaa ataacacacg 420  
agaatggtaa ccagttcgg tgcacctcac ctacatctgg gggctccaag ccgagaggaa 480  
accactctaa tagttagtt c 501

<210> 11438  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11438

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aaatgtttgt attgtggctg tgttgatgca agaaggccat ccaattgctt attttagtga 120  
aaatttaagt ggtcctaccc ttaactagtt aacttatgan taggagttgt atgtcttatt 180  
acgagacttg aaaacatggc aacactacct ttatcccaag gaatgtgtca ttcatagtga 240  
ccatgagtcc ctcaaata tcaaggggca aggcatgctt aacaaaaggc atgccaagtg 300  
ggtggaattc ctatagcaat tcccttatgt tatcacacat ataaaggga gaggtaatat 360  
tgtagccgat gctctttctc agcgtcatgc attactttct atg 403

<210> 11439  
<211> 423  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11439

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ttccaggatg ttccaaggca agggcggagc gttgacgttg tctgcaaag tatgacactt 120  
atggcacttt ctcacgtgga tgcaatagtc actctccatg atgagccaat aatagcccgc 180  
cctcaggatc tttctagcca tggcgtgccc gttagcgtgt gttccaaagg aaccctcgtg 240

gacttccact agaatccgct tagcctcctt agcatccacg catcggagta acaccatgtc 300  
atggtttctc ttgtatacta tgtttccact taagaagaaa ccggttgcca atctccttaa 360  
cattctcttg tcgttggtgg aagcctccga tgttcttgag cccgaaagac atctncttat 420  
aat 423

<210> 11440  
<211> 510  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11440

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tccctgtctg atacaatact agaaggaatt ccatgcaacc ttattacttc cttgatgtac 120  
aactctacta gcttctccat tctatacttc atattcaccc gaataaaatg agcagatntg 180  
gtgagtcgat ctactatgac ccacaccgca tcatgtccac gactagtctt gggcaaacta 240  
gatacaaaat ccatagatat gctctcccat ttccattccg gaatttccaa tggcttcaat 300  
tctcccgatg gtcgttggtg ctcagcctta gccttttggc atgtcaaaca tcttgctacg 360  
tattcagcta catctttctt catgccatgc caccaaaaac ttctcttcaa atcttggtac 420  
attntagtca ttccaggatg gaaactaaga cgaactttat gagcttcttc caagatctta 480  
actctcanat catctaaaga tggcacacat 510

<210> 11441  
<211> 463  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11441

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ctatggcatc atttctggca ctaaactgct gggagttgga ggccatcttc tcaattaaat 120  
ttctggcttc agcaggagtc atgtctccaa gggctccacc actggcagca tctatcatac 180  
ttctctccat attactgagt ccttcataaa agtattggag aagaagctgt tctgaaatct 240  
gatggtggng gcaactggca catagtttct taaatctctc ctagtactca tacaggctct 300

ctccactgag ttgtctaata cctgagatat ccttcctgat ggctgtgggc ctggaagcag 360  
 ggaaaattnt ttctaagaat actctcttaa ggtcatccca gctcgtgatg gaccttgag 420  
 caaggtaata cagccagtc tttaccactc cctctaata gtg 463

<210> 11442  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11442

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 attaaaaaat aataaagctt ggaaattatt attcactgca tttaacttcc tctcccacaa 120  
 atgttgagtg gttagggaaac attaccagat tgacaagagg tcgcggttaa gaggctctga 180  
 caaacatcta agcaaggatc aaaagaattt aagaatgtgg ttatgttatg tgccgaaccc 240  
 caacatcaaa atcttgtaaa agttcttgga tgttgcatc aagaagatga aaaattgctc 300  
 atatacgaat atatggcaaa taaaagctta gaggtcttcc tttttggtta gtttctctaa 360  
 atttaactgg gtaattaatg taagatngca ttttgttctt acaattgggt gcaaattaat 420  
 ta 422

<210> 11443  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11443

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 tgtatgattg gtctatagtc tccttccatc attntcttgt gcatgtagtt ggcagggctg 120  
 attcctttaa gatctaata gtgccacca attgcttcca tgtgtccctt gaggaccttt 180  
 accaacctat tctcttcttc tgctgttagc tcaactgtgat caccacaggc tnggtctcgc 240  
 tctcctcaa gaacacatac ttcaggtggg tgggtaggat cttcaactcc accttggtct 300  
 tctcggatgg actcccactt nttaattctt caaagctggg ccccttgca ggaatgtttt 360  
 cttcatgac taagtcttcc aagaaagtc tcagatcctt tctctcttca atagttagat 420

aatccacaac attgatcaaa gc

442

<210> 11444

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11444

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atgacaaaaa acatgataat aacaaaaaaa agtccttatt acaaagacaa ctcaacatgc 180  
cccgaatac aaggctaaaa ccctatacta ctagaatggc caaaatacaa ggccctagacg 240  
aaggaataac ctattctaatt atttacaaag ataagcgggc tcatacttag cccatgggct 300  
cgaaatctac cctaaggctc atgagaaccc tagggcctnt ccttggatct ctagcccaat 360  
ctacttggag tcttctagcc aatgcccttg cggggtagga ttgcatcant tactttcact 420  
cagatgtgog attcaggcac atcagatatc gagacgctcg 460

<210> 11445

<211> 490

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11445

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tgtgaattac anaactaccc ctaatacaaa aactagtcta agtgccctaa aatacaaagg 120  
ctgaaaaatc ctatatttct tgggtccctt acctacatta tggagcccta aatacatgac 180  
ccaaaattaa tgaaacctta atctaatatg tacaaagata agtgggctca tacttagccc 240  
atgggcccga aatctaccct aaggctcatg agaaccctag ggccttctct tgcattcttg 300  
gcccaatctt cttggagtct tctatccaat gcccttgagg ggtaggatng aatcacacag 360  
tttctatgaa ttctatcatt taagcaacac caaanatctt gaaataaact taaattcact 420  
aaattgctta atgtggaaca taactaatat aactcgaacc aattcattac aataaataag 480  
ggtaacttac 490



<210> 11446  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<400> 11446

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 acacacaccc ctctcataac taagctcacc tccttgagaa gcttccttaa gaagattcct 120  
 tatgaagcta gagcttagct acacatacct ctctaatagc taagctcacc tccttgagat 180  
 gagaagctag agcttagcta cacaccccct ataatagcta agctcacccc catgacaaat 240  
 aaacatgaga ataacacaaa aaagtcctta ttacaaagac aactcataat gccccgaaat 300  
 acaaggctaa taccctatac tactagaatg gccaaaatac aaggcctgga cgaaggaata 360  
 acctattcta atatttacia agataagcgg gctcatactt agcccatggg ctcaaaatct 420  
 accctaaggc tcatgagaac cttagggggc ttccttggat ctctagccca atctac 476

<210> 11447  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11447

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 tcagggtcca cttggacccc atntctacca actataaacc ctaagaanac tatattatct 120  
 acacaaaaag tacacttctc ttatattgca tagagggtgt ntntcctaag gactganaga 180  
 acttgctga gatgtcctaa gtgatcatct aggctcctac tgtacactan aatatcatca 240  
 acataaacia ctacaaatct acctatgaaa tcccttaaga catgatgcat aagcctcat 299

<210> 11448  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11448

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aacaacagaa tattccttgg ggagttctac aagctcccat acatcattat tctgaaactg 120  
gtctagctct tcttgcatg ctgtgaccca atattaatca gacatggtat catctatgtn 180  
gttttgc tca atctcatata gtaatgttgt gttcttaaga gagatccttc tctgtacttt 240  
gtccatagga tcacatatga tctangctct agatgttggt tectcaacag gcatccagtt 300  
ggttctctgg cctcttcagg ttggttgctc actggtgagt tagacgcaag ttggttctga 360  
ctctacacaa cagtagactt aacaatatcc tctatcttca tttatg 406

<210> 11449  
<211> 521  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11449

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ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgcttg tgctgtttct 120  
tccatgctat atgtagcaaa gtcattgatc cagtcatggt tgatgagttg gaaaatgagg 180  
cagcaattat actgtgccag ttggagatgt attctcccnc tactttctnt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggctctatt tatctacggg 300  
ggatgtaccc gggtgagcga tacatgaaga tcttanaagg gtatacaaag aatctatatc 360  
gtccaaaagc atctattggt gagaggtaca ttgctgaaga agtcattgan natttgtcag 420  
aatacttaga gaaggctaaa cctgtggggc ttctgagtc tcggcatgat gacagagtgg 480  
gtggtaaagg ttcaagaaga ctgcatgtga tcaactcaag t 521

<210> 11450  
<211> 396  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11450

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tcctctattg cctntagttg aatacacctt tgtttggttc ttaaccctct catgcaactt 120  
ctttacaact ctgacctgga tcccccttct ttatgcataa aagaagtgtc cagttggagg 180

ggaataaggt ctaacggtgt taggggattg aacccataga caacctcaaa aggggattgc 240  
 ttggtggttc tataaaccn ctattgtacg aaaattctac atgaggaaga tattcatccc 300  
 aagacttatg gttgcctctc aaaagagcac cttaaagggt ggataaagac ctatttacta 360  
 cctctgttcg cccatcagtt tgtggatgac aaagtg 396

<210> 11451  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11451

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 aattaattaa tttggtccag gttttgttct ttaacttaa ggtaacaatt attgcatang 120  
 gtttatgttg aaatggaaat tgtttgttga cgacatgttg cttgttggtt tgggtggatca 180  
 atcangacgc taangaacag gaagagaaga gggccactac tcagttgatg tttgatttgg 240  
 gttagaaggc ctatgggaag ggctcctatg gacatgccat tgaatttctt gaagttgcac 300  
 tcactatcat naccaggcc tacattattg gtggtgaggt tggttctttc ttgccccaaac 360  
 aagaatttnt gtctgattgt ggaacgagga 390

<210> 11452  
 <211> 128  
 <212> DNA  
 <213> Glycine max  
 <400> 11452

cgagtgtctc gatatattat gcgcctgaat cggacctcg aatgaaaagt tatgaccatt 60  
 tgaatttctc gagagctacc tcttgtcaat ttcgagcgtc tcgatatatt atgcgcctga 120  
 atcggacc 128

<210> 11453  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11453

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acacaacccat aaactaaaat aagcatatgt gatcagtgtc aaaataaaaat gcaaccattt 120  
acaaaaccaa tcaagaaaat aagaatagat tattacagct aaccaatcaa caagcctttc 180  
aggtagccat gcttgagatt gcttgtccac ataaaatatt tcaattaact cccacgcagc 240  
tttcaaagat gtaggctctt cacctctcta tattatgtgt aatgtgttaa aaagcaagtg 300  
attaacttct cggtatcata attcccacaa agcagatctc agctcagcta aacacgggtan 360  
aacaatntag aacctanaac agtaccttag caattacatt tgggt 405

<210> 11454

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11454

tgtattttctc tctaccagaa gcanaaatgg ttttaacagc tttcagaata gtgtgaatct 60  
gacaattaaa aagttgtaat cgattaccag taacgaaaaa ctttgaaatt aaaactgaga 120  
aggcataact cttcacaatt aactgtgtaa tcaattacca cacatctgta atcgattacc 180  
agtgagaaat atttaaagat aactctgaaa aatcacaact cttcacaagt tgttngaaag 240  
gccaccaaag gcctataaat atgtgacttg tattcgaaat tctntagaac attcattgtc 300  
ctatcttctc acaagagaat ctttggcaat cacttgcaaa tca 343

<210> 11455

<211> 244

<212> DNA

<213> Glycine max

<400> 11455

agcttttagtg tgttcttcga gcttctctgc gaaacccaaa gtatgtgatg caatcctacc 60  
ccgcaagggc attggataga aaactccaag tagattgggc cagagatgca agagaaagcc 120  
ctagggttct tatgagcctt aaggtaaatt tcgggcccac gggctaagta cgagcccact 180  
tatctttgta aatattaaat taaggtttca ttatttttgg gccttgtatt tagggctcca 240  
taat 244

<210> 11456  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11456

tgagcaacta tgcacatcaacc taacgaatga taagttgcca caacattnta atcacgcaag 60  
 gttataactt cataatacaa cttgaacatc attattaatg aaaatacata agatagaaga 120  
 gatgcatctg tttcaacagc atgtattcca gatggagcaa gaagagtaca cacaggagga 180  
 aatcaatagg agctatgtag aatctgtgga taatcacgat gttctcgatc ttattgagaa 240  
 cgtagntaga tacttctgaa tcac 265

<210> 11457  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 11457

agcttttaggc gatagttaaa ctagaacact ttttggccaa tatggaactc cttcctaaga 60  
 atcctagagt catgaatcct cttcactttc tctttgtaga tcttggattt ctcataggct 120  
 tctaagcgaa tctcttcaag ttcttgcaat tgaagcttcc tttccatacc cgcttcatca 180  
 aatgccatgt tacaaccctt caccgcccac taagtgcagt actcaatctc caccggaaga 240  
 tggcatgcct taccaaaaaac caccatatag ggagacatcc ccaaagggtg taggtaagc 299

<210> 11458  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11458

tgagagatgt cttaatatgt tttctattag aagtgatcat ggagggtgaat tataaaatga 60  
 ttattttgac anagtttgtg gagaagatgg aattcaccac agacctcaat aaaatgggtg 120  
 tgtggaaagg aaagatagat cccttgaaga aggagctaga actcttctaa atgaaacaaa 180  
 gctaccaaag tacttatgag ctgatgttat gactactatc tgctatactt taaataaggt 240  
 tcttataaga cctattctaa ggaaaactcc ttatgaactn tacacaggaa gaagacacaa 300

tatatctc

308

<210> 11459  
<211> 292  
<212> DNA  
<213> Glycine max  
  
<400> 11459

agcttctttt accaccttta ttaatctatt cacattttta aaaatctaca ttatttatgc 60  
agattatggt gtcataatct cgtgtgtcat tttgatggtc cttttcttca ttcaacatca 120  
tgggacacat agagttgcct tcatggttgc ccactactt gcaaaatggc ttttgtgcat 180  
tagtgggtatt ggtgtatata acagattcta ctggaaccga cacatatacc gtgcactttc 240  
tccactctac atgttgaaat tcttcagagc cactggcatt gaaggatgga tg 292

<210> 11460  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11460

ctaagctatg ctgcatatat tacaatagac ctctcgacc tcagcagcta aatcaactac 60  
agtatagcaa ttatgacctt tccagcgaca gatacaacct tggatggatg aatcaccccta 120  
acctcagatg gtccagccct cagcaacaac aacagcagcc tgctccttac ttccaaaatg 180  
ctgctggccc aagcagacca tacattcctn caccaatcca acaacagcag ctacgccaga 240  
gacagcccac acttgatgcc cctccacaac cttccctcga agaacatgtg aggcanatga 300  
ctatgcataa catg 314

<210> 11461  
<211> 202  
<212> DNA  
<213> Glycine max

<400> 11461

tcttttccat tattcaatgc aaaaccatta caaccctga tcttaaaagg agagatgttc 60  
ggttttatgc cattgaacaa ttcatatgta gttttctttg ggaggggtct tattaagcc 120

ctattttaaaa tgtagcatgc agtggttaacg gcttcagccc aaaagtatTT tggaagagga 180  
gtatcattta ataaagttct ag 202

<210> 11462  
<211> 276  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11462

catatattca gacCcttgag aatgaccacg gaagctctcg gcanattcaa acggccatat 60  
acgttgactc gaatgtatga tCGatgccca tGatatatcg agacgctcaa aattgaacaa 120  
cagaagctct cgagagattc atatggctat aactnttctc tcggatgtgt gattcacgtg 180  
catcatatat cgagacactt gaaattgacc attgaagctc tcgacagatt caaacggcca 240  
taactttaga ctCGaatgta tGatcgacgc gcatga 276

<210> 11463  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11463

catgtcacac tgaagtccga ttcaggtgca taatatatcg agacgctcga gatagaacat 60  
cggaagctct cgagaaattc caatggtcat aacttttcac acgaaactct gaatcaagcg 120  
cataatatat cgagaagctt gaaatngaac aacggaagct ctCGagaaac tcaaattggtc 180  
ataacttatc acaccgatgt tCGattcacg cgcataatat atCGagacgc tcgaaattga 240  
acaacgtatg gtcgCGagaa attcaaattg tcataacttg tcacacggat gtccgat 297

<210> 11464  
<211> 291  
<212> DNA  
<213> Glycine max

<400> 11464

agcttgatta atcttggttaa tcatgtagct ctgcagatga tggagaatga tgtggttgct 60  
gttggttggtc cactgtcatc tggaatagct catgtcatat ctcatgttgt taatgaactc 120

catgttcctc ttttatcatt tggggcaact gatcccactc tatcttctct acaatatccg 180  
tatttcgtcc gcaccactca gaacgactat tttcagatgt atgcaattgc agactttgtt 240  
gattattaca gatggaagaa ggtaattgcc atttacatag atgatgacaa t 291

<210> 11465  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 11465  
agcttgtcag aattctggga ctgttgttga ttcaattggg tagccaattg tcccatctga 60  
ttggttaagc tctgaatgga ggctctggtc tcttgctgaa actgcatgtt ctgcatagtc 120  
atttgccctca caagttcttc gaggggaagg tgtggagggg cctcaactgt tggctgtttc 180  
tggggttgtt gttgttcttg gattggtgga ggaatgtatg gtctgcttaa gccaacagca 240  
ttttggaagg aaggagcagg ctgctgttgt tgttgctgag ggctggacca tctga 295

<210> 11466  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 11466  
ctgggtcttct atggccatta gtagtgtgtt cttcctcatg tctaccacac agcttgcgga 60  
ggacataaaa tgtctgacaa gaatgacgcg aatgtcacca tcttcttcga tctctatcac 120  
taccaaataca tcaagaaaga tcatatgctc gaccctaacc aaaacgtctt ctatcactcc 180  
atatggtctc gogatggatc tatcaaccaa ctagacggtc atgtgtgtgg gcatgatctc 240  
tatctc 246

<210> 11467  
<211> 192  
<212> DNA  
<213> Glycine max

<400> 11467  
actcggatgt ccgattctag cacatcacat atggagacgc gcatattga acaacggaag 60  
ctcttgagaa attgaaatgt cataactttt cactcggatg tccgattcat gcacatcaca 120



tatcgagacg ctcaaaattg aacaacggaa gctctcgaga aattcaaag gtcataactt 180  
atcactcgga tg 192

<210> 11468  
<211> 293  
<212> DNA  
<213> Glycine max

<400> 11468

agcttttctaa cccatggaag ctctaataat ctccacact ttttggggtg ggccattctt 60  
ggatggcctt gattttctca ggggtccactt ggatcccatt gttaccaact ataaacccta 120  
ataagacaat attatctata taaaagtagt acttctctat attttcatag aggggtgtttt 180  
tcttaaggac tgaaagaact tgcctaagat gtcctaagcg atcatctagg ctctactgt 240  
acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc ctt 293

<210> 11469  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 11469

tgtgtttaac attcatatat tctcattgta agcatatatg gtctgtaacc ttcaaccttt 60  
tctatttgtg aaagcctgga gagacttagt actccctctg ttcctatcta taagacccaa 120  
gtttggaatg gtgtttattc atttttataa gaaccaatct ataatgcttc ttgcattata 180  
tattggtata ataaaaataa tcctcaataa aagaagaaag agaatgtatt acaaatcata 240  
taagagagaa gatattacga caagatattt tgaaaagtagt aattaaggca attatactat 300  
aac 303

<210> 11470  
<211> 224  
<212> DNA  
<213> Glycine max

<400> 11470

taaaatattc tcaacaggcc catcttttta cttgaatctt gaatggctgt caaaagccta 60  
tatatgtgag acttgggaca ccaatttgct aagagttttt cacaacaaaa acgtattata 120

ctcttaatac gcgaatcggt ttatcctctc acacattcct tggccaaatt acttgtgagt 180  
 caataaggca ttatttgggc gctcaaagag ttcaatctat ctct 224

<210> 11471  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 11471

agcttgccac actcacacga tactaatata cgaatattta taatttttgt gaggtggagc 60  
 atatatctta gcattattgg ccataaatgt ttattaaaca aatgtacaat atttagagaa 120  
 aaccttatgt ttatgttatt attctaata taagtcacac aatgatcaat ttattagctt 180  
 tcataataaa tatctcaaaa atgtattggc ttttataata aatatcttaa aaattaattt 240  
 aaactggtat gactatttaa ctctaataatt tatgtatatt ttttaaataa aaaaacatgc 300  
 tt 302

<210> 11472  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 11472

agcttctata gaagggtcgt ttctaatttc tctacaattg catcacctct caatgagctg 60  
 gtgaagaaaa atgtggcatt tacctggggg gaaaaacaag agcaagcctt tgctttgctc 120  
 aaagaaaagc ttactaaggc acctgttcta gctctttttg acttttctaa aacttttgag 180  
 ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg agggcaccct 240  
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actaccc 287

<210> 11473  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 11473

agcttghtat ctattacaca aatactgtaa tcgattacca gaggagattt tcaaaaaata 60  
 ttctcaacag tcacatcttt ttatttgggt cttgaatggg tatcaaaggc ctatatatat 120

gtgacttgag acacgaatth gctaagagtt ttcagaaaga aaaggtctta tcctcttaaa 180  
aagcaaaatc gttttatcct cttacaaatt ccttgcccaa aacacttggtg attcaataag 240  
gaattatttg agtggtcaca ttgttaaate tatctctttc aagagagatt tcttcttctc 300

<210> 11474  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11474

atttaataaa ataataataa ttagttgtag gaattattaa atttagtata taciaattgt 60  
ttgttgaatg aattaaattg actntaccca aagttacttt taaaataaca caattaaata 120  
taaagtatat atataaaaga cagtaaaata gaaattttat attataccta caatgaatat 180  
atgaaacana aatgaaaat acgactctat gtatataaaa nacagaaaat aacgcaagaa 240  
aagagagcaa aaagaattcg tcaattgtng caaaataaaa aagggatatt tntgttatnt 300  
aaataacaat agcttcaaca tgtatgaaaa tgctgtctcg aggcangaca tgacaatnga 360  
acatgcanac aatccgatca tagaaacatt gaa 393

<210> 11475  
<211> 295  
<212> DNA  
<213> Glycine max  
<400> 11475

agctttacaa agttttcaaa cattaatgaa taaaaaataa catattgaag ttgctattaa 60  
cagacaacga gacttggtga aaagagaata taggattcgt ttgataacaa caattggctg 120  
tatttgattt ctattgaggc aaggattggc atttcgtggg aatgatgaat aagttcattc 180  
aaaaaatcaa ggtaatttcc ttgagcttat acattttttg gccaatcata atgaaaagat 240  
tgataaggtt ctaaaaaatg ctcgtggaaa totcaaacta gtggcaccta atatt 295

<210> 11476  
<211> 284  
<212> DNA  
<213> Glycine max  
<400> 11476

agctttgagc aaattcaaac tacaataact tttgaatcga atgtctgatt gggctctcata 60  
 agatattgag acgctcgtaa ttgaaaacag aaggctcttag aaaaatcaaa tgacagtggg 120  
 ttctaactcg gatgtcctat tgagccctgt gatatatcaa gacgcgcgaa attgaaaacc 180  
 gaagctctga gaaaagtcaa acgacaatta cttttaactc ggatgtccga ttgagtcccg 240  
 caatatatcg agacgctcgt aattgaaaac agaagctctg agca 284

<210> 11477  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11477

nttatcactc cacccaaactc ttgccttcaa gtttaccaat tataaactg ctgacaaccg 60  
 cgtgaaagat gtacaccctc catacaatgg tgtgttgga tcaagtctta ttgtatcata 120  
 cagaggtgca tgcgcttgct caaaagtctc ttgtccaaga tcacagatca tttcctctat 180  
 acgctctccg ctgtcttcgt gtaccgcctg agactgagaa acagttggaa tgtcggccga 240  
 ttccccatgc catatccatt ttgtgtaatt cggaatgatg ccgtaacata tcagatgtga 300  
 tcggatttca tcaactgact gtcgtctacc attaagacat ttaacacatg ggcaaaaata 360  
 attgccccctc aaactttcgg cattaagttg cgtaaattgt agaaattgtt ccaccccggt 420  
 ctcataactcg t 431

<210> 11478  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <400> 11478

tcaagaaaaa gatggcctca gcaaattcct tatttccata ttggaattct atcaatagac 60  
 ctccaatctt taatggagag gggtaccaca actggaaaac ccgaatgcaa atttttattg 120  
 aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaatcta 240  
 gagatagatg gtctgaagag gatagaaaat gagtacaaca caacctaaaa gccaaaaaca 300

taataacatc tgccttagga atggatgagt atttcagagt ttcaaattgt aagagtgcta 360  
 aggaaatgtg ggacactcctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420  
 ggataaatgc act 433

<210> 11479  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 11479

tgtatgcaac tgggcccac ctcgogatta ttctaattgg tccatagaaa cgccttgaaa 60  
 gcttggattg actcgttccc gacaccgtgg ttaccgata cggctctcaac ttgactagga 120  
 cccattcatt cacttggaa ccatgatctc tacgatgcc atccgcgatt tccttcatgc 180  
 gagcctgagc cttctgaagt ttttgcgaa gtagggcaaa catgtcctcc ctctgactga 240  
 gcaattcatc cactgccgc accgtagaag tgcccgtaa gtactgtgga aaacttggtg 300  
 gtttgcgcc aaaagtgatc tcgaacggcg tcagccctgt ggtgaatgt gtggacgtat 360  
 tatacaacca ctctgccac atcagaaaat ggcccatgc gcttggccgg cgatgcacga 420  
 acgctcgt 428

<210> 11480  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11480

cgctggcttc tgcagaccaa gaaaaannat cttttttcaa ttttcatctt agnggntngg 60  
 ctatggtgtt atatctacac acaaaccttc tataatagcc taccaaacc aaaaatcctc 120  
 tcaactgttt ggggggttga gaaagaggcc aattcctaac tgctgccacc ttagcagggt 180  
 cagtagagac tccctctccc atgataaaat gtgctaaata ctccactcta gtaatatcct 240  
 aaagtacgca cttatatctt ttggccaacc atgcatttgc tctcatggta gacaagactg 300  
 tttgtaaag atgcaagtga tcctccatgc tcttntctgt aataagaatg tcataaaaaa 360  
 gaccaacaga aacctcctca agtattctcg gaacaccgaa ttcac 405

<210> 11481  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11481

ggggctgctgc gaacgcagcc ctttttacca attgataaag angcacngcc aaagaggaga 60  
 ccttagggga caccatccc aatgcaatga aagtcagcaa catatgccat aagccttctt 120  
 gatcaccat ccaccccatc caggaaagta tatattaatc gaagctgggtt ggaccgtata 180  
 tatactgtca accactgaat gcatccatgt ttcagtagca cgtgggacta acaattacaa 240  
 cgttcagaaa ctatcaatac tgtggattga cacac 275

<210> 11482  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11482

gcttcttca tctagttat ccacgaagcc gtaatattha ttctggtcca aangccaaaa 60  
 gattttaatt cttcggttca gtaccaata tgcatttaca tcacctaaaa ggattttata 120  
 aaaatggcgc ctcttctggt aatcaccctt gtttttatat tgtttcctag gcctcaaaat 180  
 tctgccagca gtatcagctg acgctgattc tgaacctgac tgagacttta aaccacgggt 240  
 aacaatactt tgactagagg atccaaaaaa gggcaaacca tttaaacctt tcatagaaaa 300  
 tccagtacag cttggatcaa acctgaaga tagcatccta gctgcattct cctcaagatt 360  
 ttcctcttca tcttgcaaat cgccagggtat tntacaactt g 401

<210> 11483  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 11483

tggcttctgc agaccaagaa aaattatctt ttttcattat gtcatttagt ggttgggcta 60  
 tgggtgtata tctacacaca aaccttctat aatagcctac caaacccaaa aatcctctca 120  
 actgtttggg ggtttgagaa agaggccaat tctaactgc tgccacctta gcagggtcag 180

tagagactcc ctctccaatg ataaaatgtc ctaagtactc cactcgagta atcctaaagt 240  
 agcacttaga tttcttggcc aaccatgcat ttgctctcat ggtagacaag actgtttgta 300  
 aatgatgcaa gtgactctcc atgctcttcc tgtaaataag aatgtcataa aaaagaccaa 360  
 cagaaacctc ctcaagtatt ctcggaacac cgaattcatt aagccttgaa atgtggcagg 420  
 agcatt 426

<210> 11484  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11484

cttgagtcta taggttatga ggtgaagttt gaggctacta ttgttggatg ttgcctctgt 60  
 ttaatgacaa gcaattacaa taccattgga gagtttgatg ttaaagagga agaggtaaag 120  
 gaaggaaggg aaagtggat tgcagtttac agagttgtgg agtcatacct gctagagaac 180  
 ccacaagtgt atgcttaatc atctatttat ttattgtgtc atgtatcata agatatacaa 240  
 acatattcaa atttttaata gcagtgtgca accaaatata gggttgttta gaatggttgc 300  
 aaagacttga attccttaat aagtccttat tgtatgaaca gcaaaaaaat ggcgagtggg 360  
 ttggcaaaaa tatttgtatt ttggtagtaa caaagagtcc aagagtnagt tgttttacct 420  
 ttacttcatg aat 433

<210> 11485  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11485

tctaaacttt atacaagtat gaagctctga taccactttt tggacaagtg gcctcagata 60  
 tcttaagaag ggggggttga attaagatat taaaacttaa ttccccaatt aaaattctat 120  
 ttcactttct attcaagtta taaattccct taataatgaa tttcttaaatt attgattcaa 180  
 ataaaacaat ttgaatatga atataaaaca ataataaata aatgagttta agagaagaga 240  
 aaatgcaaac tcagatttat actgggttcg ccacaccctt gtgcctatgt ccagtcctca 300

agctacccgc ttgagagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360

aggacaaccc ttcctttgtg tttagaattc tttcacaaca agagaccctc ngctctc 416

<210> 11486

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11486

tgtcttcaac aaacaaatca aaatcaattt tctgatcttc ataacctagc tccggcttcc 60

tcttccccat atcaactatg cagcttgogg tcaacatgaa tggccttccc aatattacag 120

ggatgtcagt atcttcagag atatccatta ccacaaagtc tgtcgggaag ataaaatggt 180

ttactctgac caacacatct tcaattactc catatggcct ggtaatggag tgatcaacta 240

attgtaaagt catttgagtg agcattatct ccaactctcc caatcttttg cacatggaga 300

gtgacatcaa attgatactg gatcccaggt caataagagc ttttcccaca ttgacttctc 360

caattgaaca aggaatagtt acactcccag gatctttatg cttgggtgga aggatctttn 420

ggatca 426

<210> 11487

<211> 420

<212> DNA

<213> Glycine max

<400> 11487

tgtaggtaaa ctagatgcct tgggttaatct ggtaacctat ctggccatga ataaaaaatt 60

ttcacctgtc gccagactct atgggtttatg ctctcttatt gaccaccaca cagacctttg 120

cccttctgtg caacaatctg aagcaattga acaacctgaa gcttatgctg caaacatcta 180

caatagacct cctcaacctc agcagcaaaa tcagccacaa caaaacaatt atgacctctc 240

cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggg cgaatccttc 300

acaacaacag caacaacaac aatagcctta ttttcaaaat gctgctggcc caagcagaca 360

tacgttcctc caccaatcca gcagcaacaa caacaacaac aaccccagaa acaacaacaa 420

<210> 11488



<211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11488

ntactgtgat aataaatcat ccatagttat tgctaacttc ctcatccaac atgatcgtac 60  
 aaaacatgtg aaaattaaca agcatctcat caaagagaag attgaagatg gtattattgt 120  
 ctttcctttt gtaaaatcag aacaacaact tgctaatatg ttgactaagg caatatcatc 180  
 taaggccctt agtagttctc ttgataagtt gggaatgtgt gacattcatg caccaacttg 240  
 agagagagtg ttagaatcca ttaactgaag ggattagcta tgatttgaat ttaaattata 300  
 attgatctaa atccctgtat attttctcct nttttatttg tgattntatt ttgatatttt 360  
 gtactaataa tcatggaaaa atgatagaaa ggattatgta tttattcatt gtctcatatt 420  
 aatg 424

<210> 11489  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11489

ctaataacat atatttattt tcaagttttt aaaatcatta acattngat aatcaaagaa 60  
 cacgagtaaa gaagtctcac attatgtgga actaagaaaa cttaaagaaca taaaaataag 120  
 aaaattataa atttaatgat taaaattttt tccttaattg ttgagaaaac tcaagtctca 180  
 tgtcagttaa aaataaaatc aaattaaaat atataagtga agaacaattc tcacactaat 240  
 ttttaggatt gaattagacc taaattcata ttctaagatt ctaagattct aagatttgtt 300  
 taatgataat gtccatactt tttagagtca agttatactt aaactcacat tctaagatta 360  
 atataatctc aaatttaatt acgcgttttt ttcgatatnta ttgatagaaa tcttaaaaat 420  
 tgaaaa 426

<210> 11490  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11490

tagttcctag cttagctctt aggggtgtcnc taagtgggta aggaacttag catctccatc 60  
tgacacaatg gtcctaggta aaccatggag tctcacaact tccctgaaaa agagttttga 120  
gatgtgagaa gcatcatcta ccttgtggca tgggtataaag tgtgccatct tgctaaacct 180  
atccaccact acaaagatag agtctacacc tctttggggt ctaggaagcc caaggacaaa 240  
gtccatacta atgtctacca aaggtgcaga tgggatggat aaggggtgttg atgtagctcc 300  
atatggagct tgtaggcctt ggatatactt tatcaatgga gtcctttgct tcttgaagat 360  
caatggcagc cgaatggaga tggaagatag atgatt 396

<210> 11491  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11491

ttaatggaag ttaagaaaat gaaattgcgt tgatactctt aattgattat taggnnttttg 60  
ggctgggttga ggacatcaat actatatttg gaaagaccca aaagaacttg acaagtaaaa 120  
atttcatatg gaagaagaga tcgatatttt tttatattcc atactagtat gatctagatg 180  
ttagacatag tattgatctt atgaatatgg agaaaaatgt gtgacagtgt aatcgacatg 240  
cttcttaaca ctaaaggag gacaaaggat ggtttaaata ctctcaata tctagctgag 300  
atgtgtatac gtgaccagtt acgtccaagg tctgatggta agaaaatata ttagcctcca 360  
gcatgtcata ctttgtttat aaatgagaag aacaagtttt atcagtgtct gtgatgtgtt 420  
aaagtaccac ag 432

<210> 11492  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 11492

accagctatg actgaactag aatgagggga taaggatagt ctttgacctt tgtgagttga 60  
attgatccga cgttcaatat tttatccact aaatattaat ataatttatg gcgtaaatac 120

ttgagttgag aatcaattat ttgagagatg aagtagtcag acaatccaaa taattaagag 180  
acattatattt tctgtcatga gcatctttaa tgttaaacad tagtatatct tgcgtattaa 240  
acatcattag accaatagag ttgcctaact ttatttttat gagctctatt atataacatc 300  
tttaataaat ttaacaactt ttttcacttt ttaataatgt aactcttcat atctaactta 360  
aaatagatct aataaattat tgtagatggt tatatttttt taataaggaa ttattttaat 420  
attaaaaaca 430

<210> 11493  
<211> 340  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11493

tcaatgttgg atgaggtgat agaataattg aagcagtttc atagcacagt tgcagatgat 60  
aaatagaatc aacatgtcat cgatgatgct gccattgacc atgcagcaac agcttcaaatt 120  
gtcgatgatg tctccaatgg gcatgggatt agggatgggt atggggatgg gtatgggaat 180  
ggggatggat atgaactnca tgaaccngnc tcacatnctt ggcatccctc cagtcctcca 240  
cccttctgcc ttcatgccca tggcagcctc gtgggatgcc gcggccgcat ctggtggcgg 300  
tgaccgactt ctatggactc ccgtcaacgt gatgcctgac 340

<210> 11494  
<211> 427  
<212> DNA  
<213> Glycine max  
<400> 11494

tgtatttttc tcacatatag gacatgtggt atggcctttg acactataac cacttaaatt 60  
tccatatgct ggatagtcac tgatggtaca aaaaaccatt gcacgcaacc taaaggcttc 120  
tcgcagatcc ccatcccaca tatctaccct gtgttcccaa ttttttgtca agtcttctat 180  
caacagagtc aagtagacgt caatatcatt ccctggatgt cttagatccg ctatcatcat 240  
gcaaagcatt atgtactttt gcttcatgca caacgaagga ggaagggtgt aaatcattag 300  
caaaacaggc catgaactgt gattgctgct taagttacca aatggattca ttccatcgaa 360  
agcaagacca agccttagat ttcttggctc attcctaaag gtctctcgca gattcccatc 420

ccacata

427

<210> 11495

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11495

ntagtggaaa gaaagaatag tttagtttta taggaccatg atcaccacct aggacttgtc 60

atgggggaaaa aacctgaagg agacaaagga aacagccctg gcgaaagtgg aggctgcggc 120

ccggagccta aaatccccga ctgtgcaaag ggtgacaaag ggaaatgggg agtaaaacga 180

gatggaaact gaatgccagg ggacaacagt ggtggataac cagactgagg ggagagaaaa 240

ttcatgtagc catttgggtga atgcaagaga aactgagagg ttggagaagg taaggtaaatt 300

atgacgccat ttggttgt 318

<210> 11496

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11496

atgagtatgt ctgcgaatcg gacatcctgt gaaaagntat gatcntttga atttctcgag 60

tgcttccggt gtttaatttc aagcgtctcg atattttatg tectcaaadc agacatcgga 120

gcgaaatggt atgaccattc gaatntgtcg agagcttccg tttttcaatt tcgagcgtct 180

agatgagtta tgtcaccgaa tcagacatct gagtgaaatg gtatgaccat tctaatttgt 240

cgagagcttc cgttgttcaa tntcgagcgt ctagatgagt tatgtcaccg aatcggacat 300

ccgttgaaaa agttatgacc attcggcttt gtcgagagct tccgtgggtc aatttcgagc 360

gtctcgatat attatgctcc cgaatcggac at 392

<210> 11497

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11497

cactntgatt ctctggtttg tagtacagta actacacttc tccttccctt ngaacttctc 60  
ttagaagaaa aagctntatc ttgaaatgct tagttttgcc atgaaacact ggatcattag 120  
caattgagat tgcagcctgg ttgtccacaa aaatatgtgt gctctcttct tggttcatat 180  
gcanaattgt cataattctc ttgatocana gagcttgatt cattgcagca acagcagcta 240  
catactctgc ttctgcagtt gattgagcta caacttcttg ctttntagaa caccaagaaa 300  
agactccaga accaaaggaa aaacaataac cagatgtgct tctcatgtca tcaatacaac 360  
ctgcccagtc actatcagaa tatccatgga gcttanatta tgagaatgag agtacatata 420  
ccatagtcta aagtgcgtca acatatctaa taact 455

<210> 11498

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11498

atacacggat gtccggttga gtcccgtaac atatcgagac gctcaanatn tagatccgaa 60  
gctctggcaa aatttaattg acaataactt tatacacgga tgtccggttg agtcctataa 120  
tatatggaga cgctgcaa at ngaaaacgga agctcatagg aaattcaaac gacaataact 180  
ctntactcgg atgttcgatt gaatcgggta atatatcgag acgctcaaaa ttgagactag 240  
cagctctgag caacatttaa tgacaataac tctatacacg gatgtccggt tgagtcccgt 300  
attatatcga gacgctctca atngagaatg gaactcttag aaaattaaac cacaataact 360  
tttact 366

<210> 11499

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11499

gctcacctcc ttgagaagct tgcttaagag aattcctaaa gaagctagag cttagcaaca 60  
cacacatctc taatagctaa gctcacctcc ttgagatgag aagctagagc ttagctacac 120

naccctata atagctaagc tcacccccgt gacacaaaaa agatgaaaat acaaaaagaa 180  
aagtccttac tacagagact actcaaaatg ccccgaaata caaggctaan accctatact 240  
actagaatgg ccaaaataca aggcccacac gaaggcaaac ctattctaatt attacaaaga 300  
taagcggctc atacttagcc catgggctan aatataccct aaggctcatg gagaacctan 360  
ggccttcctt tgatctctag cccaatctac ttggagtct 399

<210> 11500  
<211> 305  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11500

atctcgacat attatatgcc cgaatctgac atccgagtga aaagctatga ccatttgaat 60  
ttctcgagag ctctcgtngt tcaatttcaa gcgtcccgac atattatgcg cccgaatcgg 120  
acatccgtgt gaaaacttat gaccctttga atatctggag aacttccgct gttcatttct 180  
tagcgtctct atatgtgatg cgectgaatc ggacatccgt gtgaaaagtt atgaccatat 240  
gaatctctcg agagctctcg atgtgtaatt tcgagcgtct ctatatatta taagcctgaa 300  
tccga 305

<210> 11501  
<211> 362  
<212> DNA  
<213> Glycine max  
<400> 11501

cctcaagggtg gagcatataa attgtgctcc aagcttggaa catataaagt ggatccgagg 60  
acctctcaag gacttgggtca ggatgtctac aagctggctg ttggagataa taaattcggg 120  
actgatttct ttggaccgta gcttttccca cacaaaatgg aatcaatctc tatggtgtta 180  
gctctctcat gaaatacacg attagaagcg atgtgaagag ctgtctgatt atcacaatac 240  
aacttcatct attgaacacc acaattttta ttcttgaaga agttgtttta tccacaccaa 300  
ttcactagta acaagagcca tagctctata ttctacttct gcactcgatc aggcaacaac 360  
ac 362

<210> 11502  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11502

acttaattac aagatattct tatgcatagc agttatcagt gttcaaaaact aaacctaatt 60  
 attagtaaatt tgctaaatca atccaaaaaa gattgaatac cgcaataccc aaaaatctca 120  
 taaagtgggc attcttttgc tatctcattt gttcttttga tcttgctata aaaaattgaa 180  
 ccaaactgaa taaaccacat aatttaatta tattacattt tattgtggta attaataata 240  
 atttattact cttccttttg ttataaccaa gatgcatatt tcactcttat atgttaaaaa 300  
 agaatgtact aatattgtta aaaatagtat taaatatcaa gtgaagcaca tattactata 360  
 atgttaaaca cagagagttg gtaatatcat tntatattag tgctacactg aagtganata 420  
 acaatcttta ctaatatata ttac 445

<210> 11503  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11503

ctaagctaag ctccttcaac tgcacaaggc tcttaatat ngaagagtat tcttgtggaa 60  
 ccttcacccg acgaagacac tggcaaaaac ttatcttctc tttattggac aaagtatggc 120  
 aggctggnng caaagtaaatt ttcttcccat cagaccttgg atgcaactgt gctcttatac 180  
 ccatatcagc tagatcttga cgggtattca agccatcctt cgtcttgcct tgaatgttaa 240  
 ggagcgtccc aatcacactg tcacanaaca ttttctccac atgcataaca tcaatacaat 300  
 gtctaacgtc aagatcacac cagtacggaa gatcaaagaa natggacctc ttcttccata 360  
 tgcaagtctg ac 372

<210> 11504  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11504

taatgtatct atatgtacat ttattaatat aaattntata tataaaagaa aagttaccat 60  
aataaataat tgttttttatt aaatcaaata agagaccaat aaaaaattta tccgaaaaca 120  
cattanagaa ttaaattatt ggggtgaataa ttntttttat ttcattgcta taataatata 180  
aatatatttt tatgaataat tttatataaa taaaattaat gttttaaata aatntgttta 240  
gacaagttat tatntaattt tntaattatc atcttcctac ttatgtaaac tggatgatgaa 300  
tatctcttac ctacatanaa tttgaattta tntatacatt gatatctata tatgtaaagt 360  
ggttaatata taaagtatat at 382

<210> 11505

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11505

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ctgcacaaga tgtccaacgt tatgtcaaag aataatatcg ggctgcacaa tgcacaaagc 120  
aagataaaat gtcaaatgaa gaattgaagc ttgctgattc acgatgtcgg atacaatgtc 180  
caggacatcc tgcctgaaaa tactggaatt gctaaaagca ttgaagctgc aggatccacg 240  
atgtcngatt caatgttcat gacatcctgc ccgaaaatac tggagttgct aaaagcactt 300  
gagttgcagg atccacaatg tcggattcta tgtccaggac atctngcccg agaatactgg 360  
acatattaat ctgttatatc tttacagatt att 393

<210> 11506

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11506

atactctcat gtgatcaact cttggcttca ctccactcca tgcttcttgt ggtgggttgat 60  
ctttgacatt ctntgtggg gagcgattgg acaaataaac ggcacatgca acagcttcng 120  
cccanaattc ctttggcata nttttagcct tcaacatata tctagtcata ttaagaatag 180



ttctatTTTT tctctccgct accccatttt gntgtggaga tctaggaacc gttagagggc 240  
gacgaatccc atatntttca caaaattcat tanattcttt tgatgtgaat tcgccacctc 300  
tatcggatct tagagctnnt gatacataac cactcttctt ttcacaagag ctcttaaaat 360  
tt 362

<210> 11507  
<211> 406  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11507

tcttaggtgt tatagatgga agtctcatgg tgggtacatct gttcaaaaca tatgctgntg 60  
tgggtggccgc ttctccccgg tagcaattng gtagtccttt ccctttaagc atacacctag 120  
ccatatctaa tagggttcta tatttacttt ctaccaagcc attgtgttta agtgtataag 180  
gagctattac ctcatgttca attcctttag tttcacaaaa ttctttgaac tccttagagt 240  
tatattcacc cncctcatct gttctaagga tttntagctt caattcagat tgtctctcaa 300  
ctaatttgag agcgagagaa tattgcacct ttctctttca atagatatat caaaatactc 360  
ttgggttaatt catccacaca agtcaggaaa tactgatgag gacatg 406

<210> 11508  
<211> 404  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11508

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aacttattgt cgtttgaaat tgctcaaagc ttctgtattc aatttatggc atctcgatat 120  
attaagggac tctatcgaac atttgaggaa aaagttattg tcatttgaat ttgcttgaa 180  
catctgtttt caatatcgag cgtctggata tatgatggga ctcaatcgga catccgatgt 240  
taaaggaatt gtcgtctgaa ttctctcaga gtttcagttt tcaatctcat gtatctcgat 300  
atacttaaga cttaatcgga cttccgagta aacatttatt gtcgtttgaa ttagctcaga 360  
acttcagtaa ttcatattaa gccgctctga ttaataaatg actg 404

<210> 11509  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 11509

tggacatcgc ttcatttttg tgcgcattga ttacttcacc aaatgggttg aagcggcttc 60  
 atacgccagt gtgactagga gtgtgggtgt taggttcac aagaaaaaga taatttgctg 120  
 gtatggtttg cctacgaaga ttatcactga taatgccacc tatctgaaca ataaaatgat 180  
 gaaggaaatg tgtgaggatt tcaagatcca acaccataat tctatgcctt gcaggcccaa 240  
 gatgaatggg gcagatgagg ctgctaataa gaacatcaag aaaatagttc agaagatgat 300  
 cgtgtcatac aaggattggc acaagatgct ccctcttgca ctacatgggt attgaacctc 360  
 gatacgcaca tctactgtgg caaccccggt ctctttggtg t 401

<210> 11510  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11510

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 caccnctat aatagctaag ctcaccnca tgacannaaa acatgaagat acaaaanaga 120  
 gtccttacta caaagactac tcaaaatgcc ccgatataca aggctaaaac cctatactac 180  
 tagaatggcc aanatacaag gcccaaaaga aggaaaaaca tattctaata tttacaaaga 240  
 taagcgggct catacttagc ccatgggctc gaaatctacc ctaaggctca tgagaaccct 300  
 atggcctacc ctnggatctc tagcccaatc tacttggagt cttctacca at 352

<210> 11511  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11511

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caattgtttt atacttattg ttgactatat ctggtacagc tcaatcagtt ggcacgcata 120  
 taaaaaaatt tggcggaata ccagatgcag atataacaca ggtaacatct ggttgaattc 180  
 acttttataaa aggttgaaga ttctattgat tattattaat taccactatt gtgttcgatt 240  
 tgaatatata tatatatatt ctcaaggcctt tcaactgatgc tctgaatgta gcatgtgcat 300  
 taacaagngc atgcaaaatt gtaattccaa atgggacata caagatgaaa gtcattgatg 360  
 taaa 364

<210> 11512  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11512

gacaaagaaa ttaaagatat tcaagatgga tgatcataga cagtctctag agtcttagga 60  
 atggtatatt aaataggaag ggaattccta attgaagtag caaaagggtt ggccaagaaa 120  
 tttaagttaa aaagtctttn tcaagagatt tactctctgg taatcgatta ccagaggatg 180  
 taattgatta ccagtggcca aaaatgattt acaacagcta ttaaaatttg aattcaaaat 240  
 tngcactgtg taatcgatta cacatatatg gtaatcgatt accagcagtt attgaacggt 300  
 ttatattcaa atttaaagct tgtaatcgat tacacacata ctataatcga ttaccagagg 360  
 agatnttcag anaatattgt caacagtcac atcttttcat ttggttcttg aatggccatc 420  
 anaggcctat atatatgtga cttg 444

<210> 11513  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <400> 11513

tctcgggtata ttatgcacct gaatcagacc tccgggtgac atgttatgac tcattgaatt 60  
 tctcgagagc ttccgttggt caatttctag cgtctcgata tcttatgcgc ttgaatcgga 120  
 cctccgagtg aaaagttatg accatatgaa tcgctcaata gctttcactg ttcaatttct 180  
 agcgtctcga tatgatatac gcctgaatcg gacctccaag tgaaaagttg tgaccatttg 240  
 aagttctcga gagcttccgt tgttcaactt agagcgtctt tatattttat gcgcgtgaat 300

cagacctccg agtgaaaagt tatgaccatt cgaatatctc gagagc 346

<210> 11514

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11514

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gaatgtgtca catgccanca gaataagaat agtcacaggc gccagctgg tgtactgcaa 120

cctttaccga catcagaggc cgtgtgggaa gacctctcta tggacttcat caccacttg 180

ccaacctcca atgggttcac tgtcatccta gttgtggntg atcgtgtntc gaaaggagt 240

catctatgtg ctctttccac cggattcacg gcgttcaaag tcgcaagcct attcctcgat 300

atcatatgcc aactacatgg gttccgcaag agcatcgtgt ctgaccggga ccctatcttc 360

atgagcaagt tct 373

<210> 11515

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11515

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gagaagtcca cgagaccgag gtagaggcca ttgtcacagt cgaggacagg ttggatgtgg 120

caatagtcaa agaggttcaa atttcatcaa caacagttgc gagataggaa gaaattcaac 180

aagagaacgt ggaagaggct atgcaagcat aaggtatgat aaatctcaa ctcaatgcta 240

taattgtcaa aagattggcc actatgcttc taaatgtaga ttcgccaaga atagagttga 300

ggaggagact aactatgtgg agcaaanaga cgagaagntt gaaacaatgc tcctagcatg 360

tgga 364

<210> 11516

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 11516

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tacatgcata tatgtcacaa cacaagttt ccttgggtaa tctgagttga aatcttttagg 120  
gtgtacaact ctaacttatt ttaattctac atcatataat tagagactnt aattagtcac 180  
caactaatta aactaaaatt ctacttgta aaccagtata taagttatta caaaaatggt 240  
ctccacttta cactcttatg agttcattac nncctttcta attcaatgga atctagatca 300  
ccattaatca accttaatta gtcctcagta aattctaagt ctacttacat taatttataa 360  
tgttctttca cgcgtctaaa ttctatttct agaccaagat ccaattatta acatct 416

<210> 11517  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11517

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tatnttttca tgatatacata tttgaaggat atatatggga attatctaaa gctaattatg 120  
tcatgttgga taactggatt ttttaaatgt agttattttt gtgtaaaata agaagatat 180  
tggtttgaac gaatgcagta tatgcagcat gatgtgctac atgtggacga ttggcatgaa 240  
cgatttttaa aaatattggt taagcatatt atatatagca gtgcatatta tgctaattatt 300  
catcttgact cacaattaaa ttctatattc acaaaaataa aaattgtctg tatgtcaaca 360  
atgtagctgg ataacgtaat attacattat a 391

<210> 11518  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11518

aatattttta aaggcttgaa tattattgag tataaaggac tatgaaattc tatagttttt 60  
attgaatgga ccttagatgt aacaaatact attgtttggg tgctgtcaa gtactagtta 120

caatgtagtg tcatatcatt acttaattga cgataaagat tcaacacaag gtttgatata 180  
tcaagaaaat aatgttacc aatcatttat tgaagacca aaataaanag attgtcatct 240  
atcaatgaat tcaaacatat ttatatcttt cttttattaa caagaagttc acgtgtgaat 300  
tattaataag ctcttattaa taacattata ttgataggng cttattaacc tgttacctaa 360  
tatttttaga atttgaaact ctttacccaa tttaatttga tctagcacia aatgtcacac 420  
aact 424

<210> 11519  
<211> 337  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11519

ctgcagctta cctatcacag ctgcttanaa gctctgctnc ctatggttct taataactcg 60  
ctattatact gtcctgaaca gccatataga ctcaaata taagtgaatt gaggcacaat 120  
atgctgttgg gtaagcttac tagactntta cagtcttcca aaatcaaata ttcaagctct 180  
cttagaagac cgacggatgg attgatatgc ttgagatgtg tacatccttc aagagttaga 240  
tgttgaagat ttacgtcctc tntgaaatgt ggtaactcaa caagacttgt gcagtctttc 300  
aaattcaaat aagccagctt tcttagaaga ccgatgg 337

<210> 11520  
<211> 465  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11520

agctatactg canacatcta caatagacct cctcaacctc agcagttaaa tcatccacta 60  
cagaacaaat atgacctctc cagcaacagg tacaatccta ggtggaggaa tcatccaaac 120  
cttatatggg cgaatccttc acaacaacaa caacaacaac aacaacctta tttttagaat 180  
gttgctggcc caagcagacc atatgttctt ccaccaatcc aacaacaaca acaacaacaa 240  
caacaacaac cctagaaata gcaaatagtt gaggtcctc cgcaaccttc ccttgaagaa 300  
cttgtgaggg aatgactat gcaaaacatg cagtttcaac aagagaccag aagcctcatt 360

cagagcttaa ctaatcagat gggacgaatt gctacacagt taaatcaaca acaattccaa 420  
aattctgaca gattaccttc tcaatctgtc tagaatccca aaata 465

<210> 11521  
<211> 301  
<212> DNA  
<213> Glycine max

<400> 11521

gtttcttgag agatcaataa aggaaagga tgtggaagat gaaatgtcat ctggaattcc 60  
accagaaaga ctattgttag ccaactctaa cctttgaagc attccaagct tccaagacc 120  
cacaggaacc gtcccagaaa gaaaattgtt ctgaattcta acacgaacta gtgaaggaca 180  
cattgatagg cttgatggaa ttggaccagt gaatgcattg ttgaatagta taagcatggt 240  
gagaatgccc tggctgcaaa gagtttctgg aatctctcca gagagtgaat tggatgatac 300  
a 301

<210> 11522  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11522

tatctactac gcagctngta gttacatgaa tggccgacca agaatgagag gaatatatgc 60  
atcctcttct atgtctatca caacaaaatc agttgggaat ataaggtggt tcaccttcac 120  
taaaacatct tcaatcactc catacggtct tgtgatggat cgatttgcca actaaagggt 180  
catgcggtga ggcattatct caagctctcc aagtcgccgg cacatgaaga gaggcattag 240  
attgatacta gctccc aaat ctatgagagc ttttcctata gcaacctcac caatagaaca 300  
tgatattgtg acaactccag gatctntgtg cttatgagga aaaatgcatt gaatcacagc 360  
actacaattg ccttccacca taattcaatc attgtggatg taccggttct tcttcggttaa 420  
catatctttt aaaaatatgc atagagtgc at 452

<210> 11523  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11523

tacctcagct ggtntcataa gatcatgtnt actccgtcgc acgttgagca agttttgcac 60  
agcttgcccc tctatggaca tctcaccgc actagctctt actctggcct gaactcgaac 120  
caatgcctgc atgcacctta atgtccccgc tgtctgcttc ctcacctgtc tccccccgaa 180  
caagtgcctg aatcctcacc actgccttca atgccctcaa agccttctt gcttgcaatc 240  
accacacaag tgatgtcgaa atataagggt ggtctagtg taaaggccga acgcataatg 300  
aaaagggtgga gagggcatat gttagaaact aacaatccta gcaattaata tttgtctata 360  
aaaaaaaaata gtgaatgt 378

<210> 11524  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11524

cttagctcct aaaaatttat attgtttagt tttttatttg attccagttt ggcttcaatt 60  
ttaaatacaga tttttgtct ctctatttta aaacataaat aattntaatt cttgtgtgag 120  
ttaaccatct caagacaaat ggttgacttt gacgtgatat gaaatctatg tacgcaattt 180  
acataatact tattgtaaaa aagatttaaat aataataaat atagaaaaat atcttaatgg 240  
aaatncaact aataatcctt tataaataat gagagcagtc aataagatat gtgtcttagt 300  
tagttaatta cattaatatt atctnttatg tattattatg taagattatt tcttttcaaa 360  
tatcaaaatt atattctaac aatattaata tataatattt ttatatatgt catata 416

<210> 11525  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11525

tgacattcca ttgtgaattg atcactntgc atttctcaaa gaaatcagcg attntgttgc 60  
ttgattcctc tccattgagg gggatcaatgt ggaagccgga gaccccatca acaataatnt 120



ctgctggacc tccttggttg gtggcaaaag tgggcaagcc acagttcatt gcttcaatga 180  
cagttaatcc aaatgcttca tacanagcan gctgcacaaa ggctcctctt gtgtcagcga 240  
tgcaacggta gagctctcca ttgcgatacc tttcgtctg tgcagcaatc catctaaatt 300  
gacccttgag ttggtactta tca 323

<210> 11526  
<211> 288  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11526

actatattat ctacacaaaa ggtacacttc tctatattnng catagagggt gtttttccta 60  
aggactgaaa gaacttgtct gagatgtcct aagtgatcat ctatgctcct actatacact 120  
ataatatcat caaaataaac aactacaaat ctacctatga natcccttaa acatgatgca 180  
taagctcata aggtgcttgg tgcatagtga gccaaaagca tactaccatt atacaaccaa 240  
cttgtctgaa cagtttcact ctacctttta tctgattgta tacccttt 288

<210> 11527  
<211> 371  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11527

ctaatatgct tctcagntca agaaaacccat ggttacattc atcattgact ttnggacaag 60  
gaatgctacc attactttct gcatgccacc cagatcttga ccactcacga actacagtct 120  
cagcaacagc atttggttca ttntgttcaa cagcatatgg ttcattgtgt tatacactta 180  
tattatcctc accatgcagg taatcacgac cctgacagac aaactccaac ataattggat 240  
ctgcaccacc tacaagctgg ccagttcgaa gctcgcgaca acagatgaga canaggctga 300  
aagagcattn tgtacagctt ctgtggtaat caaatattga cgttttgcag ttgtcactac 360  
aagagagagc g 371

<210> 11528  
<211> 260  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11528

tagtgttgcc atgttttcaa agcccgact aaggcataca actccttatc ataagttgaa 60  
tagttaaggg taggaccact taacttttca ctaaaataag caattggatg gccttcttgc 120  
atcaacacag ccccaatccc aacattngaa gcatacact caatttcaaa agatntttga 180  
aagtttggca acgcaagtat ggnggcatta gttagctttt gcttaagaac attgaaagct 240  
tcttcttggt tctctcccca 260

<210> 11529

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11529

ctataaatag acctcccatc tttaatggag tgggttacca ttactagaaa acccgcatgc 60  
aaatttttat agagggcaat agattttaat attttgaag ccatagaaca aggaccttat 120  
gttcctcta taatagctgg aagtgaaca atagaaaaac ctagagcaga ttggactgag 180  
gaagaaagaa gattagtaca atataattta aaggccaaaa atattattac atctgcctta 240  
agaatagatg aatactntag ggtttcanaa tgtaaaagtg ctaaggatat gagggataga 300  
ctacaagtaa cacatgaagg cacaacagaa tgtaaaagat ctangataaa tactntaact 360  
cgtgagtat 369

<210> 11530

<211> 348

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11530

acatatatga ataattaaaa aacaataaaa cacaatacca aaagtaagta cataccacta 60  
gtcatatatc attaaagtaa ttaagtttaa aacacataat cataaacaac caagagcaag 120  
tcaatataat catcatgttc agtcatacta agcaagtatt aaaagaaata ctaagtattc 180  
aaatttcata aaaacatagc caaatacaag gcttaanaac aaaatataat tataatctaa 240

atctattatc agagaatcaa aacttaattc taagtaacaa anattagtta tgaacacata 300  
catggtaact cattacttat ctcaattatt ttagcatatc aatataat 348

<210> 11531  
<211> 235  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11531

atctccttga tagggggccaa atgggtggac tcagaatcgc catgcataga gttgtcaggc 60  
tctgagtctg aggtgtaatc tattcatgca gaactaatag gtcataataa tctctacata 120  
atgaagtaaa atggaaattc taccacaaca aaattacaaa taataaaatg atgctagaga 180  
aatntaagga ggttgatact tnttgaatca naattgatat agattgacca tacta 235

<210> 11532  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11532

gattccaaca gtaaccttaa tgccgcttca ttataaagtg ttaataaaac attaaaacac 60  
acacacaaac cacaatacaa aaactatatt acctgccatg caaatcgttt tccattcata 120  
tcaatctcaa aatctgtcaa aaagtgtatc aagtaattct agaaactcta taagatatag 180  
caaaatatgt caataacaga caagtgtatc caccagcagg gtagaattga agaatagggtg 240  
atgaaggatc aatcatcaaa tccctatatt nttcaggaag tgcacttgaa ctgtaacaag 300  
aacttaacca gcatcagcac aggatgcatg atataat 337

<210> 11533  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11533

actgagatgc agctgtagat gcttaaaaac ctggatttgt anatttttca gctcagacga 60

aagancccaa tcagagntgg attcagacct aataatgact agcctgacat actttatatt 120  
tacttctaata atcaaggaaa ttatattaca taatgtataa aacataacca aattacaaaa 180  
catagttttc aaaatatatt aaaaataact accatacgaa aactacttta catgtgttag 240  
ttgttacatt attttttttg tataggatgt tctacttgag gtaattatat ttgtgtgggt 300  
aaatatattg gaccatcttg ttaanaaaaa ttataatata gaataagtgt tgtttagaag 360  
aatacagttt aataaacaga taagatcggg ttattaaaat acacaatata ttatttttta 420  
atagaaac 428

<210> 11534  
<211> 515  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11534

atatacctat caatcattat ccactttttt ttttcttctt canaatatct aaatcaattt 60  
cccgagttgg atatggaatg aatgaataac gtcaacctgc aaatgaagaa cttatacaaa 120  
tgtagcatac atttgaaata attaatatca aagtatttta cattgcatgt aactataatt 180  
aattaattaa ttaaattatc atcatgataa aaaaaacata taactgggtt ttaaaaatat 240  
attaaatgaa agctgaaaca taataaaaat atagaactct taattaaaaa tctattattt 300  
atgatttttc gcttgaaaat actgatacca ataanaaagt atagcacaca tagctaagaa 360  
agatagttga ctacaatctc caatgaaaag ctagttagtt acacgtacac accatgaaga 420  
tgcatatata tatacttcat tccacgacta ctactttacc ggctaaaata ttatctaata 480  
ataacctaata actctactat agatcttcta ctgta 515

<210> 11535  
<211> 229  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11535

tcaacctaac attgtggaac ttaagggtgc atatgangac anacaatcgg tgcatttggt 60  
catggaacta tgtgcgggtg gtgagctttt tgatcgtata attgctgagg gacattacac 120

tgaacgtgcc gcggtttcgt tgtaacaacc ataatgcaga ntattcacgc tttccactcc 180  
atgggtgtca ttcatagaga tcttaagccc gaatattcct catgttgaa 229

<210> 11536  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11536

tttcccacaa ctctcataaa tgggagagaa atgttcatct aaagcataca agtcacctaat 60  
attatcaaatt ccttaaaatt gagctcctag ggagcaaaac aatgtgtgtc tcttagagag 120  
ggcatcagct accacatttg ttttccctt tttgtatttg ataacatatg gaaatngctc 180  
taggtactct acaccatttg catgcctcat gtttaacttg ctntgccttc taatgtactt 240  
aagtgattga tgatcactat gaatgacaaa ttccttggaa acaaggtaat gttcccaagt 300  
ttggagggct cttattaagg cataaagctc tatatcat 338

<210> 11537  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11537

tgaaagtgag tgagacatcc aaaanacaaa gaaaacccat caatttgaag ccaaaaatta 60  
cacatagaat gacattttct caaagaaaac caaatgcgat atgcagacag tacctcataa 120  
cagcgacgaa tatgaagttt ctttagattc ctacagccac tagctatgcc acacatggct 180  
tcattctcaa tgcttgaaca atctaccaat tgaagtgtt gcaagaaatt gcatccctgt 240  
ccaacctgga caagaccagc atcaccaatt ctttggcagt aaagcaatgc taactcatag 300  
agatgtctgt gcaatatata gctaagatta gcatcactaa tgaaagtgag ctaaataatc 360  
aaatacatg 369

<210> 11538  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 11538

ccttcttttc tcatgtgcac ccttatccta tctttatggt cgaagacaac cttctttctc 60  
cctttggtgg cttggttagc ataactttta tttctactct caatttgatt tttcactctc 120  
tcatgaaact tcttcacata gtccgccttt gcttgagctt ctttatactt aaaaacagaa 180  
acattatgca taggcaaaag atcaagagga gttagtgggt taaaaccata aacaacttca 240  
aaaggagaac aattagtggg gctatgaaca actctattgt aagcaaaatc aacatggagg 300  
taaacaac 308

<210> 11539

<211> 316

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11539

tcagaaatat tctcaattgt ctcatctntt cattnggttc ttgaatggct atcanaggcc 60  
tatatatatg tgacttgaga cacgaatntg ctaagagttt ttcagaacaa aaaggtctta 120  
tcctcttaaa aagcaaaatc gttttatcct cttacaaatt ccttggccaa atcacttggt 180  
attcaataag gaattgtttg agtgctcaaa ttgttcaatc tatctctntc aagagagatn 240  
tcttcttctt ttcttctnta ttctgaanag ggattaagag accgaggggc tcttgttggt 300  
aaagaattct aaacac 316

<210> 11540

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11540

gctctctaca atctantggc ataactnttc acacggatgt ctaattntgg gacctaatat 60  
atcgagatgc tcgaaattga acaacggaac ctatcgagaa attcaaattg tcaaaacgtt 120  
tcacacggat ttccgatttt gggacataat ataccgagat gctcgaaatt gaacaacgga 180  
acctcttgag aaattcaaatt gatcataact nttctttcag atgtccgaga cggggacata 240  
atztatcgag aactcgaaa ttgaacaaca naagctctcg agaaattcaa atggtcatga 300

<210> 11541  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11541

atgtatctta agntgtcgag aagcatatgc cactacctgt ccccgatgca taagcactcc 60  
 acccaaacc atacttgacg catcacaata caccacanaa gattcactcg gattaggtaa 120  
 cactaagact ggtgcagtgg tcaacctttc cttaatggta cggaaactac tctcacattg 180  
 ggcatccac acaanaactt gacctttacg agtaagctta gtcaaaggta aggctagctt 240  
 agaacaacc tctatgaatc tacggtagta tcttgctaag ccaagaaagc tcttaatctc 300  
 aaacactgac ttangactct ctcaactcat cactggc 337

<210> 11542  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11542

tcttacagac agcanaagaa agtttatagc gataaccact cgggtatttc caccgtcaa 60  
 cgtgactcaa atgtcagtat gacagatctt gtgaagggtg cgcacaaaag cgaggctctt 120  
 gctcctacgt atcctncaat gaggaactca gacctacgta gttcttgata actngtgaga 180  
 cttgaaaaag tctccaccgg aagatgctga catctccgga aagggcgcag atgaccacat 240  
 tggcctctgc togtcaatca cacttgnggt cactgaatga cgagggtcgg ataaccgtaa 300  
 ggtgtcttcg cgaactacca gctctnggggt catggtaaca aaaagcg 347

<210> 11543  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11543

cttctcgtct gtgggtcttt aagtttcatg ggataatttc ttcatttggt tntgatgaan 60

accccatgga tcaatgcata taccacaagg ttagtgggag taaaatatgc tttcttgttt 120  
 tataatgtaga tgatatttta cttgcagcca atgacggng tttgctacat gaggtgaaac 180  
 aatttctctc taagaatttt gacatgaagg atatgggtga tgcatttat gtcacggca 240  
 ttaagattca tagagataga tctcgaggta ttttgggtct atcacaggan acctatatta 300  
 acaaaattct agagagattt cggatgaa 328

<210> 11544

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11544

aatcatagnt ctactaagac atgtttgagt gticgggaac aagagagggt tttgaaaggg 60  
 cggaaggaac aaccaatttg agagcatgat agagcgtata gacatatggt aaatgtaaaa 120  
 ctgacctagt atatctctat ttagaactat tatactctca acctattaat tactctactt 180  
 ttctttatta tattatttta taacaataaa ctatatatta ctcccaatca aatgaataaa 240  
 ttaaattattc attctattct ataagaacat ataattagtg tatctacctt angatcatta 300  
 ctctaattaa taaaattatt cttcttatct attaattacg agaattctcat tatctctac 360  
 tcctctatta t 371

<210> 11545

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11545

aaccacatca cccttacaga tgactgatat aagcttttaa tggaagtcaa gagcacgaaa 60  
 ttgtgctgat actattgact ggtgagcagg tcttcacagg ggttgaacac ttgaatattg 120  
 tatttggaag gaccacaaag aaggataaaa ataagacttg catatggaag aagaggtcca 180  
 ttttctttga tcttcctgat tggtcagatc tggatgtag acattgtatc gatgttatgc 240  
 atatggagaa aaatgtatgt gacagtgtga atgggggtgct ctntaacatt caaggcaaga 300  
 cgaaagatgg tctgaatacc cgtcaagatc tagctgacat gggatatga t 351



<210> 11546  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11546

cagcacaatc aaccacagca gaacaattat gacctctcca gcaacagata caaccctgga 60  
 tgggtggaatc accctaattc catatgggtcc agccctcaac aacaacaaca gcaacctgct 120  
 cctttcttcc aaaatgctgc tggcccaagc agaccataca gttctccacc aatccaacaa 180  
 cagcaacaac ccagaaaca gccaacagtt gagggcccta cacaaccttc cctcgaagaa 240  
 cttgtgaggc aaatgactat gcaaaacatg cagtttcaac aagagaccag agcatccatt 300  
 cagagctnga ctaatcagat gggacaatta gctacacaat ggaatcaaca acagtcccag 360  
 aattctg 367

<210> 11547  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11547

gaatgaagct ctgataactca cttgttagtc tagtggcctc atatatctta agaagggggg 60  
 gttgaataag atattccana ctacttcccc aattaaat ctatttgact ttntattcaa 120  
 gttataaatt cccttaacaa tgaacttctt aaatattgat tcanataaaa caatttgaat 180  
 atgaatataa agcaataata aataaaggag tttaaggga gagaaagtac aaactcagat 240  
 ntatactggc toggccacac ccttgtgcct acgtccagtc cccaagcaac ccgcttgaga 300  
 gttccactat cttgttaaatt ccctttacaa gttctaaaca cacaatgaca atccttcctt 360  
 tgtgttagaa ttctttacaa caa 383

<210> 11548  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11548

gcttcttagt ctcacctgat gaattcgngg ctactttatg cactcttcta atgacaataa 60  
catcacttct ggcaactaaa tgctgngagt ttgaagccat cttctcaatt aaatntctgg 120  
cttcagcagg ggtcatgtct cctaaggctc caccactggc agcatctatc atacttctct 180  
ccatgttgct gagtccttca taaaaatatt ggagaanaag ctgctctgaa atctggtggt 240  
gagggcaact ggacacataat tntttaaatc tctcccagta ttcatatagg ctctctccac 300  
tgagttgtct aatacctaga aatatccttt tgatggctgt ggtcctggaa gcagggaaaa 360  
tgttntctaa gaatactctc ttgtggctcat cccaactcgt gatggacctt agagcaagg 420  
aatatagcca gtcttttgcc actccttcta a 451

<210> 11549

<211> 249

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11549

gagaatcatg gtcttgaagc tcctgcgctg cangagtggg ttgaagctgc tatataagta 60  
agaaatcctg atgctctgct cctcgctnta gaagttagag agaagatttc tattgatagc 120  
tctgtatttg gtaaacttct gccaaatcca ttcagctcta gccagactat ctctgctgat 180  
cacctgtcct ccctgagtaa tagcttgaag ggagactata ttcattcatc tatgtgtggt 240  
caatactgg 249

<210> 11550

<211> 256

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11550

atctacacca gcctggatag taggatataa tatcttcaca gaggcacaa ccgcttccaa 60  
ctcattcaat acagtaaatt taccaccaga anatcttact ctactttcct catttacaag 120  
agtctgcaac cttctaaaat ctggagccca tgaatgtatg tcggccacat tcaagtttga 180  
taacttcttt gacgagccag agaatggtgc agtaaaccac ctgcaaataa atacagtctt 240

caccttaact ncatac

256

<210> 11551

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11551

attctaaagc ccgagtgata gntgttggtt ttcttcacat ccaagcccaa tgctgcaaa 60  
ccatgattgt ctaatatattt cacggattgg gccttctttg agccttttta acattattat 120  
gacctggtct tgtgaggaaa aggcagtgat ggttcgaagg ttagaaatag cttcaatagc 180  
tattttgcta gtttcatctt gggctctgat agccttttta gacataccct tgaggagtac 240  
aagtcttggtg tagaaactcg caatgccaat aggttgaaca acaatcaata taatggcaaa 300  
tctccatgca atgattatgc ccattgtgca tgctatcacc actgctgaaa tag 353

<210> 11552

<211> 275

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11552

tatgcaagct gaaagccttg gaggaagag gtatgcctat gttgttggtg atgatttctc 60  
cagatttacc tgggtcaact ntatcagaga gaaatcagac acctttgaag tattcaaaga 120  
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgacca 180  
tggcagagag nttgaaaaca gccagtttac tgaattctgc acatctgaag gcatcactca 240  
tgagttctct gcagccatca caccacaaca aaatg 275

<210> 11553

<211> 187

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11553

agcgactaag atgtaccagg accttatgca gatngtttgg tggccgagta tgaagaaaga 60  
aagttatgag tttgtccttg catgcctagt gtgtcagaaa gctaaaatag aacatcagaa 120

gccttcaggg aagttgcaac ctttagagat acctgagtgg aagtgggata gcatctccat 180  
ggatttc 187

<210> 11554  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11554

agtcacctga ggcattgcaag cttcanattc acctctactg gagnntctgt tggtttacat 60  
tttccatggn aaaccttctc aaaacatttg aaatatactt cttttggtgc atganaattc 120  
cctgtttagt gtatgcaaac tccaatccta naaagtatga taatgttccc aggttcgtca 180  
ttccttcttc aaattatgtt ttagtgggtc aatcccagtt gagctactct cagtaagtaa 240  
tagatcatcc acatacagac aaatgataag aatgtcagtg tgttttacia ttctatgtaa 300  
actccctgaa agtcaatatt gtgaagaaaa gtgtcaattc tcttgttcca agccctacgt 360  
gcctgttgta acccatataa tgccttcctc aacttcaaca ctttgtgttc attcccttgc 420  
atatgaaaac agaagggtga taataaacac atcttcatca agtg 464

<210> 11555  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11555

gtctcacgaa tgtcacctgc tcatgtctca ttttttatct cgtggctata tgagacatct 60  
tgccaaacaa agtcagggtta acaataactc gcctgtgctn tntcttccat gctatatgta 120  
gcaaagtcac tgatccagtc atgtttgatg agttggaaaa tgaggccgca attatactgt 180  
gccagttgga gatgtatgtt cccctgctgt ctttgacatc atgattcact tgattgtgca 240  
tctggtcaga gaaatcaaatt gttgtgggtc tgtttatcta cgggtgatgt acccggttaa 300  
gcgatacatg aagatcttaa cagggtatac aaagaatcta tatcattcaa aagcatctat 360  
t 361

<210> 11556  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11556

gcttctatta tcaatttcga gcatctctat atatctcttg gactcaatcg ggcacccgag 60  
 taaaacgcta ttgtcaatnt aattttctag gatcttgcac tttcaatttc gagcgtctcg 120  
 atatattaca ggactcaatt ggatagccga gtaaaaagtt attgtcgttt gaatttgctc 180  
 agtgcttctg ttctcaattt cgagcgtctc gatataattac aggacttaac cagacatctg 240  
 agttaaaaag ttattgtcgt ttgaatttgc ttggagcttc tgtacttaac tctgagcacc 300  
 tcgatatatg acgggactca atcgaacaaa ctagtaaaaa gttattgt 348

<210> 11557  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11557

tatgctnnta tattattcan ttactttgtc tcatactctc tatatgttat ttcttctaata 60  
 tcaaatatga attcaattca nattgacatt taagttgttt gtttgctttg atgtaaaaaa 120  
 aaatagttaa tggcatgcat gggtatattt ntaatcaaca acttatataa aaagaagagt 180  
 attaaacaaa catctattnt atcagttttt catatgcttc ctttcaatta gtcttaattt 240  
 ttctctaatt ataattgac attaaatatt tgtaatagtt ttcatatgaa atcttcgaca 300  
 tactaatact acatgcaaca naataaagtc atatctcacg gtggtgacat ggtcgattac 360  
 acatatgac gatata 376

<210> 11558  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11558

agactatgtc aaggnatgga agtacgggga ctcgctctac cgggtgcaagt gtcttaagga 60

tgctgctctt ggccgcatgt gcactgagat caagaggggtt ggcccagagtt tggcttattt 120  
 agaacaggtc agacagcaca tggctaggct tccctctatt gatccaaata cgaagacctg 180  
 tttgatctgt ggatataccta atgttggtta gagctcgttc attaacaaga ttaccagagc 240  
 tgatgtggat gtgcagccct atgctttcac taccaagtct gtctgtgtgg gtcatactga 300  
 ttataaatac ctgaggtacc aagtaattga tacgccaggg attttggaca ggcccttttga 360  
 agatcgtaat attattgaga tgtgcagtat cact 394

<210> 11559  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 11559

tctattggat aaactcggct atacatcgta tgatatgggt gtcaaagtct ctatcatccc 60  
 ttctaattgtc cttgtatcca tatctgacag tgcacctata cattcgatat ggtctcggac 120  
 aaactcggcc gattaggaaa cgttcttttg ttaatacatg tggaacagga actgttttca 180  
 cacaacaaaa gaccaacacc atgtgaaatg catggagggt ggatacaaag tgggagaata 240  
 ttgcaggat tccctgttgc agttctgtgt agatgagacc aatcc 285

<210> 11560  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11560

gacaccgaga gggacagtgt ataaagcttg tttaggggtac aagatggagt aagggacctg 60  
 atttccaaga acaaataag gcatgtagta gatcaggtaa taggatgtaa taagtgcac 120  
 accccaaaaa tgatgtggga cattatagtg aaggataaga gtataagttg tttcaactaa 180  
 atgatgattt tccttttcgca acaccattnt gttgtgggtat gttggcacat aacgtctcat 240  
 gaagaattcc ttgcgagggt agaaaagagc gaaattggaa gaacaaatat tcatgggcat 300  
 tatcagtgt tataatctta acgaaaacac caaattgatt ttgatttcat atgaaaacct 360  
 tgaaaaagga aacata 376

<210> 11561  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11561

ttgaggaaga ggcttaccac ctctcccatc atgcaaccac cagatgggga acttcccttt 60  
 gagctcatat gtgatgcctc taactatgca ctnggggttt gtttgtcgta gagagttgat 120  
 agactataac atgtcattgc ttatgcttca tgcactntag atgcaacca agttagctac 180  
 accaccactg agaatgagct nttagctatt ggttttgctt tagataaatt catatcttat 240  
 ttcctttgct cccatatcat agtctntact gaccatg 277

<210> 11562  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11562

cttaaatata atttcaaatg gggatntcat tttgttagat caaatgtggt gatgccacaa 60  
 tttattgagg gaggactatg gacatgngtg aattttggag gggacataga agattgcaac 120  
 ttatacacct gatcttcagt ctttccttgc agaagaaccg cccccgttgt caggctcttt 180  
 acctcanaat gcaagggaaa aattcaacag acacagagtt agtttgacgt aattgagaaa 240  
 cagaaatgag attntgagag acagagggaa catagtatat tggaa 285

<210> 11563  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11563

ctgagtntgt agctacctca tgctctctct ctaatgacta tggcatcatn tatggcgcta 60  
 aactgctgag aattggaagc catcttctca attaaatttc tggttcacgc aggagtcag 120  
 tctccaaggg ctccaccact ggcagcatct atcatacttc tctccatatt actgagtcct 180  
 tcataaaaat attggagaag aagctgctct gaaatctgat ggtgggggca actgacacat 240

nagtttttta aatctctccc agtactcata tatgtctctt ccactgagtt gtctaatacc 300  
 tgagatatcc ttcttgatgg ctgtgggcct ggaagccagg gaaatttttt tctaaaaata 360  
 ctctctta 368

<210> 11564  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11564

caatacattn ngaannaaat taaacaaacc tgtgctacac atagatgaca tgtgttggat 60  
 acctacaaat tatattatgt attgaaacaa aggtcatttt tatactctga atccttaata 120  
 taacctctta tacccttttc tttaaaattt acttagcgag tatttttttt ccagtgatca 180  
 agatgattat gaggttgtag aaaaagtggg cagggggaaa tatagtgaag tttttgaaag 240  
 cataaatatc aatagaaatg agcgctgtat aatcaagatt ctgaaacctg tca 293

<210> 11565  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11565

tttcctctgt acttcanaac cttcatgtgg agcacgtgat cgagcatctc tccacacaat 60  
 aatgtgatta tggggataaa gtctctgac caaagaaatg tgtactcttt taaagaaagc 120  
 tgaaaacttt ggatacaaag gagacgactt ctgaactact cctggctgat caggggtcaac 180  
 accatcctcc aatatactcc c 201

<210> 11566  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 11566

ctgcacctgt cgccagactc tgtgggtttat gtcctctgc cgaccaccac acagaccttt 60  
 gcccttctgt gcaacaatct gaaacaattg aacagcttga agcttatgct gcaaactct 120



acaacagacc tcctcaacct cagcagcaaa atcagccaca acaaaataac tatgaccttt 180  
cctgcaacag gtacaatcct ggatggagga atcatcccaa ccttagatgg tcgaatctct 240  
tcacaacatc aacaacaacc ttattttcaaa atgttgctgg cccaagcaga ccatacgttc 300  
ctccaccaat ccaacaacaa caacaacaac agcctcagaa agaacaacaa 350

<210> 11567  
<211> 286  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11567

ataaatagta aagttggtga tgagaaaata aaatggttgt tgtgtaggtc ataccatcac 60  
ataatattcc ccttgtcttc cttttagtg tactttaagt attccatggc tgccaccaag 120  
ggtgcttttc acaaaacaaa acanaaaact caggcaaatt cacttatcga aagcaattga 180  
caacatatat ctctngcaac ataaacaaag cacctacttg tatacttgcc actcgtaagg 240  
agggccataa ttacagcctt tgctgttcct atgctcaaat ttcaat 286

<210> 11568  
<211> 283  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11568

atctgcacct gtcgccagac tctgtggttt atgctcctct ctcgaccacc acacagacct 60  
tngcccttct gtgcaacaat ctgaaccaat ngaacagcct gaagcttatg ctgcanacat 120  
ctacaacaga cctcttcaac ctcaatagca aaatcagcca caacagaata attatgacct 180  
ctccagcaac aggtacaatc ccggatggag gaatcatcct aaccttagat ggttgaatcc 240  
ttcacaacag cagcagcaac aacaacatac ttatnttcaa aat 283

<210> 11569  
<211> 227  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11569

aactgggttc ccaccaatca tacttccact gntgccacag gtttgggtaa atttctgtat 60  
gctgctggaa ccaaatccaa atttaatttt ggaaactata tctntgatca aactgttaag 120  
cattcagaat cttttgctat caaattaccc attgccttcc ctactgtatt gtgtggcatt 180  
atgttgagtc ancatcccaa tatgttaaac tacactgact ctgtgat 227

<210> 11570  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11570

ctcggatgtc cgattcaggc gcacaatata tctttacact ttanattgtt aacagaagct 60  
ctcgagagat tcgaatggc ataacttata acacggatgt ccgattcggg cgcataatat 120  
gtcgagacgc tcgatattga acaacggaag ctctcgagag aatccaatgg tcataacttt 180  
tcactcggag gaccgattca ggcgcataat atatcgagac gctcgaaatt gaacaacgga 240  
agctcccgag agatcaaag gtcataactt ttaactcaga ggtccgattc aggcgcataa 300  
tatatcgaga ctctccaaat tagacatcga gagctctcta gaaatt 346

<210> 11571  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11571

agcttctcga tacattatgc gcctaaattg tgacanctga gttatttggt atgacaattt 60  
gaatggctct agagattcca ttgttcaatt tcgagcgtct cgatatatta tgaatatgaa 120  
tcggacctcc gagttaaag ttatgaccat ttgaatgtct cgagagcttc cgctgttcaa 180  
tttcgagcgt ctogatatat tatacgccag aatcggaact ccgtgtgaga agttatgacc 240  
atatgaatat ctccagagat tcgcgtgttc aattacgagc gtctcgatat attatgcgcc 300  
cgaatcggac ctccgtgaga atagttatga ctatttaa atcttgagag cttctgttgt 360  
tcaattgcga gcg 373

<210> 11572  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11572

acatgtgcct agatgcatta aacctcanct cnatatgata tatatatgaa gctgggatga 60  
 taaaccaatt cagtgtcgtt agatgaaagt ttactagaga aagcatgggtc attgctcaag 120  
 gtaagaagga aggctccttg tacatcatgt atgaaaagat atgcaaaagg gagacaaatg 180  
 ttgctcaaga tgcaaccaa gaattgtggc acaagagaat gngtcacatg agtgagaaaag 240  
 gtttggagtc tctattaaag gatcactttc caaacataaa gaggtaacca cttgaatcct 300  
 gcgaagattg tcttgcaggt aaacaatgta gagtgtctnt ccaaagatcg gatgaagcca 360  
 gaaggagaaa gcatatcctg aatcttgtcc actcagatgt ttgctcaacg tctaaaaagt 420

<210> 11573  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11573

ggtcaaagng acttcttata ccaatgtcac gaggagtgtg gtggtcagat tcataaagaa 60  
 ggaactgatt tgtcgatagc gactccctag gaagatcatt actgacaatg gcaccaatct 120  
 gaacaacaaa atgatgcagg aaatgtgcgg ngatatcaag atccagcatc ataactccat 180  
 ccactatcga ccaaagatga atggngctgt ggaggatgca aataanaata ttaataagat 240  
 tattcagaag atgacggtgt catacaaaga atggcatgag atgttgctt ttgccctgca 300  
 tggatatcga acctcggtcc gaacttctac t 331

<210> 11574  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 11574

ctacaacacc tcaatcttca cgctcacctc atcacctttg tccccatcac tgttcctcga 60  
 gttgatggtc ttcctcaaga tgctgaaacc acttgagaca tacccttctc tatgggtcca 120

cttctcgcca cggcttttga cgcaccgag aaagacatcg aacttctcct aaggggaactg 180  
aaaccacaat ttgttttctt cgagatccaa cattgggtgc gcaacctgac tcgaagccta 240  
ggcatcaaga gt 252

<210> 11575  
<211> 457  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11575

gcttctgaaa tatgagcaag aatcaaacct atggttctat ctattcttct gctaaagggg 60  
gatttctttt ttaaactatc cgcanactag atgaacttaa gtaggtttct tgatcagccg 120  
tagtaactgc aaaaggtttg attgatgaca cgagagattc tggacccttt gttgcaatcc 180  
tcttgacaaa agcatcacag ttgctgataa cttcagtc aa ccttcctttc agttctccaa 240  
ttccaccta caatgaatga actacatgca cgttccaaca tatagttaac aatttccaca 300  
tacaatcata gaataccaca tgagagtatt gtgatttatg acatagatgc aaatgaatca 360  
agatttaciaa gttagtgatc ctttgtaaca atgaaagagg aaattaccat tcatttcggt 420  
taatgatata aaacacatgt atcatgttag tacttgc 457

<210> 11576  
<211> 358  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11576

tgagtgtct atcaatggag ttgacaagaa atcttcagac ttttctcatt tgccagtggc 60  
caangatgca tgggagatcc tgaanaccac tcatgaagga acctccaaag tgaagatgtc 120  
cagattgcaa ctattggcca caaaattcga aaatctgaag atgaaggagg aagagtgtat 180  
tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcaactgct tngagaaaag 240  
aatgacagat ganaagctgg tgagaaagat cctcagatct ttgcctaaga gatttgacat 300  
ganagtcact gcaatagagg aggccaaga cattngcaac atgagagtag atgaactc 358

<210> 11577  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 11577

cagatgcccc tcaagtttcg ctctgccatc tcaattgaaa tcggccgatg ttcattccaaa 60  
 gtgggtcatgc tgttttgaat gttgactact ctgttataac gagaaatctt ggtgatgaaa 120  
 ttgcgcggat cgctcaagtc acatgaaatt ggcatgcgaa ccctgagggg gcacacattg 180  
 tcatattcta tcaagagctc ttcgactctg aaaaaataa taacatccaa attataagat 240  
 attattataa 250

<210> 11578  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11578

atatacataa ccaaagatng actacaaatt ataaaggagg tctctctttg tgtcaggaca 60  
 acttacaatg caagcaaata gaggggttttc aaggttcaac gagaatgggt tccttaagat 120  
 acaaaattag ttgggttgat tggaacatat accanatacc agttaagggt tacataactg 180  
 attccaccga caaagtgagg tcaaattgggt ccaaaatact tcatgattgt ctggtagtga 240  
 tgcaatccta ccc 253

<210> 11579  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11579

gctttactcg gagatctgat tcangcgcgcat aatatatcga gacgcttgta atgttcttcg 60  
 gaagctctcg agaaattcca atgctcatta cctttaactc ggaggtctga tttaggcgcc 120  
 taatatatca agacgctcga aattgaacaa cggaagctct ctagaaattc aaatgggtcat 180  
 aacttttcac tccgaggttc gattcaagtg catgatatat ccagacgctc gaaattgaac 240  
 aatagaagct ctcgagaaat tcanatgggtc ataaccttaa actcggaggt ccgaattagg 300

cgcataatat atcgagacgc tcgaaattta acaatggaag etc

343

<210> 11580

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11580

catgtgaagt ggggtggaat cttatatcaa ttcccttatg ttatcaaaca taaaaaggga 60

aaaggtaata ttgtagccga tgctctttct cggcatcatg cattactttc tatgcttgaa 120

acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaagtgatga aacttttggt 180

gaaattttta aaaattgtga aaaactttca aaaaatgggt tctttagaca tggaggcttt 240

cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta caagaaactt gcttgtttgt 300

gaagcacatg aaggagggtt aatggggcca tttgnggtcc aaaagactct agaaacatta 360

caagaaccat tttattggcc tcatat 386

<210> 11581

<211> 387

<212> DNA

<213> Glycine max

<400> 11581

tgcatcctga agacaaactt ctatgatata tagacttggt gcttatgagt acatggctaa 60

tggttcattg gataaatgga tattcaacaa gaacaaagag gaatttcagt tggattggga 120

tacaaggat aacatatcac ttggaatagc aaaaggactt gcttatctac atgaagattg 180

tgactcaaac attattcatt gtgacattaa accagaaaac gtgctcctag atgataattt 240

cagggttaag gtttctaatt tggtttggct aagctcatga aacgtgaaca aagacatgtt 300

ttcacaacac ttagaggcac tatagggtat cttgcacctg agtggatcac aaactgtgcc 360

atatcataga aaaatgatgt ttatagc 387

<210> 11582

<211> 270

<212> DNA

<213> Glycine max

<223>        unsure at all n locations  
 <400>        11582

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gaatgctatc gtgggaaagt gaacaacttt tcaacggttt gtcaccaata acatttatga   60
atttttagccg tattgggata cacggcctaa caaatcactt gtaatatcat aatgatcccg  120
cttatctaca tgaagattgt gactcttaca ttattcactt gcacattcac ccacaaaacg   180
tgctcctaga tgataatttc acggttaagg ttttgaaatt cagtangatc caactcatga  240
aacgtgaaca aagacatggt ttcacatcac                                     270

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<210>        11583  
 <211>        373  
 <212>        DNA  
 <213>        Glycine max

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<400>        11583

tgcataagtc cgggtcccaa ttccaatatt tatacactca tcatcagggc tcagagaaac   60
cccagaaatt tccccaaaga aatcaatctc ttgacgtttt ctgtagtctg ctttcgtgct  120
ataaacatgc acaaaatctg caggctcagc aaccaccata tattgaccat ccgaagaaaa  180
ccgaatagac cgggttgccc ctaggttatt cttgagaatg gcagtaggag atgataagtg  240
tctaactccc atactctgca agtcttatcc tgattccccg ttgcaaaggt acatccatcg  300
ggatgccacg cagaagcgaa agagtaatct cgatgaccaa ccaaattggc aacagtctaa  360
aaaatcaaac aag                                                         373

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<210>        11584  
 <211>        300  
 <212>        DNA  
 <213>        Glycine max

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<400>        11584

tatcttagct aacgcaacat tgttcattaa gagtgaagga gttgacattc ttatcatctc   60
actctatgtc aaagatctct tgagaacaag aagcaacaca tgtcttgggg aaaaacttaa  120
taaagaaatg atggaggagt tcgagatgac agaccttggg ttaatgacct tctttcttgg  180
catggagatc aaacaaagag aacatgaaat cttcatTTTT taaaaaaagt atgccagga  240
gaatttaaaa aaatttaaaa cttgaagaat gcaaaggaaa tgatcacttc aatgaaataa  300

```

<210> 11585  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 11585

tactcaagct ttgatgacta aaataaaaaa atagtcagat ttcttgagag attttcggtg 60  
 acaaggggtga aattttgaga gatttgatta gtgctcttgt gttgatgact ataataacat 120  
 gcttttgaca ttaacagggt gagatagggt atgggcagga cgtacttgtg agagtacatt 180  
 ctgaatgtct cattggggac atttttgggg caacatgtca atgtaaaaac caattaaaac 240  
 ttgcattgaa gcaaattgaa gcagcaggta ggggtgtctt ggtgtatctc cgaggaaatg 300  
 aaggtagagg tattggctta agccacatgg tccgtgctag cccattggaa gatgacaagt 360  
 atgaagaatt gcagttacct gttgagtcta 390

<210> 11586  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 11586

tttctattgg attcgtcata tcttcatcta ttgttaaate atctgtgcc aattcagaat 60  
 tatcgtcccg tocaattctt ggtgttccta ggtcagatgg ctcatatgca gtatcactac 120  
 cataatctga ggcaacagag gaactgccag caactaatga taagctcgac tggagagggtg 180  
 attgcacaga ataaactgtg ttgctggaat ctgggtctgt ttcagaattc tgctggtttg 240  
 catcttgaa tgctaggaag gattaaatga ggtataaaat atcaaaattt gggaaagcta 300  
 acaatcaatt atcataaaac agaccacact gacattgagg aaactaaata caagttgcaa 360  
 aagataatca catacaagat c 381

<210> 11587  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 11587

agctttatgt ctgtgattcc ttccccagt atcacatggt attctgaggg gtttgctacc 60  
 ttgtacatct ttatgcttaa ttctgccgca gtgataaaaa gctacaccaa ttagccgcga 120



tatacagata tagatatatg aattcattta tgctcatttc ttacaaataa aatataaaat 180  
gctactaagt ttaagaggca tagacggcca gttttgtttt caatttctat aaacttgtaa 240  
ataattttat ttatttaatt attaaataaa tatttttaat tttacttggt attggtttta 300  
tttaagatgt tgtatattct ttattatttt atttaacgtg ttatatattt 350

<210> 11588  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 11588

agcttggttaa tgcacccaca ttgtatgcag aataacgata tttactgaag actttgttga 60  
tcaaaggatt gacgtaacaa ttatgaacaa agtcaactgct gccagcactc acatatgtag 120  
agtgcattat taaaaatcaa tgctgcttgt tttactgcca actaccttgg ccagcttgca 180  
ttgggattcc ttgtaatata ttaactgacg agacaatgga atcgcatgct gcaaaagaaa 240  
aacacagttt aaaaaacat taatt 265

<210> 11589  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 11589

agctttcatt tttctgggag ttgaggcttc agcgtgggcc gtgggaccca gatgtgttgc 60  
ggttaccaga agggttcgag gagcggacca aagcgttgg agttgtgtgc accacttggg 120  
cgccgcagtt gaagattttg gggcacatgg cggttggtgg cttcttgact cactcggggt 180  
ggacctctgt ggtggaggct attctgaatg agaagccgtt ggttctgtta acgtttttgt 240  
cagaccaagg aataaatgag agagtattgg aagagaaaaa aatgggctat tctgtgcca 300  
gaaatgaaag agatggattg ttcacgagtg actcggtagc tg 342

<210> 11590  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 11590

tgaagacaag actatacgag gtatcttccct tgggtatatc aatatctcta agggctacca 60  
 tgttttacaac ttgcaaacta agaaactcgt catcagtc aa gatgttgaag ttgatgagta 120  
 cgcttcttgg aattgggatg aagaaaaatt ggagaagaac gttcttatac ccgcttaact 180  
 acctcaagaa gaagctgagg aagaagaccg aggtgaacca ccttcacctc caccacaaca 240  
 acaagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttggtgga 300  
 catatatgaa acctgtaact tggccatact tgaacctgga agctttgaag aagcgtcaaa 360  
 gcaggaagta tgggtcaagg caatgg 386

<210> 11591  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 11591  
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 gttggatcaa atggagaata cagatcataa tgaagaagaa aggaggagaa gagggaatga 120  
 tgggtgttccct aaacaaaacc gaattgatgg cattaaactc aacattcctc catttaaagg 180  
 aaagaatgat ccggatgcct acttggagtg ggagatgaaa atagagcatg tcttctcatg 240  
 caacaactat gaggaggacc aaaagggtgaa gcttgccgcc tcggagatct ccgactatgc 300  
 tcttg 305

<210> 11592  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11592

tgatgtttgt attgaatgca ttaaagggtt acagaccata agcaagaaat taggtacata 60  
 tagagctaca tacgtcttgg aattgatata tacgaacatt tgtggggccat ttcatacacc 120  
 ttcattggaat ggtcaacaat attttatatc attcatagac gattactcca gatatgcata 180  
 cttgtttntt atacatgaaa agtcccaatc tttggatgtg ttcaaaagat ttaaagttta 240  
 agttgaaaat caactcaaca aagaataaag tgtgttagat ctgattgtga tgggtgaatac 300

tatggtagat atgacgggtc aggtgaataa cgtccggggc cttttgccag gtacctaaag 360  
 gaatatggaa tttgcccact gtaca 385

<210> 11593  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 11593

gtgcataccg caaggatcct ttatgaaatt tcttgtgaaa gagagccacg aggggtgggct 60  
 catgggccac tttgggatag acaagatgct tgtcttactc aaagaaaatt tttattggcc 120  
 ccatatgaat aaagatgtcc atatgcattg cactaagtgt gatgcttggt ttcaagcgat 180  
 gtttgagggtg atgcctcatg ggctatacac acacttacct attcgctctg caccttgggt 240  
 ggacattagt atggtaactt ccatgggctt tctatac 277

<210> 11594  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 11594

tgtgctaaag gaagtaagac atgtgcctga tatgcattta aaccttatct caacaggaaa 60  
 gctagatgaa gctaggatga caaaccagtt cagtgccgaa agatggaatc atagtagaga 120  
 aagcatgggtc attgctcgag gtaaaaagga aggctccttg tacatcatgc agggaaagat 180  
 atgcaaattg gagatgaatg ttgttcaaga tacaaccaag gaattgtggc ac 232

<210> 11595  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 11595

cttgatgcaa catttggaga ggttaatgaa tcaacgagat gatgcgctcc atgagagggt 60  
 ggatcaaattg gagaatagag atcataatga agaagaaagg aggagaagat ggaatgatgg 120  
 tgttcctaga caaaaccgaa ttgatggtat taaactcaac attcctccat ttaaaggaaa 180  
 gaatgatccg gaggcctact tggagtggga gatgaaaata gagcttgttt tctcatgcaa 240

caactatgag gagaccagaa ggtgaagctt gctgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctaca aaaagagaga gcaagaaatg aagagccaat gggtgataca 360  
 tggacggaga tgaaaaa 377

<210> 11596  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<400> 11596

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60  
 tcttctatctt tcagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcattc ttctttggag 180  
 gatagacatg tggaggagta gctgggttct tgggggtgcc ataagtaaca attgtccttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
 gtgaagttta cattgaatcc ttcattcacac agctgactga 340

<210> 11597  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11597

tgtgcatcca ataccctgat gaggatgttt tatatgttct taaaactgga ctgattcatt 60  
 tgcttccaaa gtttcatggc cttgcagggtg aagaccgcga caaacatttg aaggaatttc 120  
 atattgtctg ctccaccatg aaaccccaa atgtccaaga ggatcatata tttctgaagg 180  
 cttttcctca ttcttttagag ggagtggcaa aggactgggt gtattacctt gctccacggg 240  
 ccatcacgag ctgggatgac cttaagagag tattcttaga aaaanttttc cctgcttcca 300  
 ataccacagc catcaggaag gatattctcaa gtattaaaca actcgggtgga gagagcct 358

<210> 11598  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11598

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 tggaaggcct ctcatTTTgt acatgacaat cttagacgag tcaatgggggt gtatgctggg 120  
 gcaacatgat gaatccggaa agaaagagcg cgctgtttac tacctaagta agaagttcac 180  
 gacctgtgaa atgaattact ccctgctcga aagaacgtgt tatgctctag tatgggcac 240  
 ccacgccta aggcagtaca tgctgagcca tactacctgg ttgatatcca agatggaccc 300  
 ggTTaataca tctttgaaaa gccagctctc 330

<210> 11599  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 11599

agcttatatt tattggaggg ttaataaaac aatccaaaat catttgttcc tttcaagtaa 60  
 cgaagaattc tttttgcggc ttttagatga ggagaggtag gagccttcat aaagcgacac 120  
 acaactccca ccgtatatag aatatcgggc cttgtattgg ttagatacct tagactcccc 180  
 acaagactct tgaagatcgt ggagactacc ttctctcctt tatcaaactt tgataacttc 240  
 aagccacctt ccatagggtgt gttcacggga ttgcaatcaa acatattaaa attctttcac 300  
 acttcttttg tggacccttt cttgagagac aaaaatacca ttc 343

<210> 11600  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 11600

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 gttctccttt tgaagttggt tatggtttta acccactaac tcctcttgat cttttgccta 120  
 tgcctaattgt ttctgttttt aagcattaag aagggcaagc aaaggcggac tatgtgaaaa 180  
 agcttcatga aagagtcaaa gatcaaattg agaggaaaaa taaaagctat gcttaacaag 240  
 ccaacaaagg gagaaagaag gttgtcttcg aaccgggaga ttgtgtttgg gtgcacatga 300  
 gataagaaaag gtt 313

<210> 11601  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 11601

agctcggatt tccttttagt ttggaatcta tccttcctaa gatagagcca aacctagtca 60  
 ccctcattaa gaactagctc ttttcttctt ctattgcctt tagttgaata cacctttggt 120  
 tgattctcta tttggttctt aaccctctca tgcattcttct ttacaaattc tgacctagat 180  
 tcccccttctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtggt 240  
 aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300  
 ctgttgtagg caaattctac atgaggaaga tactcatccc aagacttatg gttgc 355

<210> 11602  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 11602

agcttctcca aaaaacagtg ttatcagcat attgaataac attcacagaa actttgttct 60  
 tccccaccag aaaacttctg aagctatctt gggaaactgc ttctctcatc agccctgtca 120  
 atccctcagc cactaaatca aagagaaaag gtgccaaagg gtcaccttgt ctcaatcctc 180  
 tttggggggt aaattctgaa gttgggctgc cattaacaag aatagaaatg gaagccgaat 240  
 taatgcaggc ccttatccac ctaatccatc tctctcatgg aaccccatc tcttcatcat 300  
 ataaatgaga aattgccaag atacagaatc ataagccttc tc 342

<210> 11603  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 11603

agcttgatcat tttttcctat atgtgtttta aatgggttaa attatttata tggctcctca 60  
 atttattttt tagatttaat tggatcttct aatttttttt attcaatttg atcctcta 120  
 ttttaaactg atttaattca gtttttaagt ctaaactgata agaaatcaca ctttatgata 180  
 gttcaaaatc gtcactaaat gatttttaac tgtcacaaaa tacatagttt ttacaaaaaa 240

atgaatcaat tctaaaaatt ggaagatcaa attgaactaa aaaaacacta gaggaccaa 300  
tcgaattggtt tttaaaaatt agatgaccaa attaaa 336

<210> 11604  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 11604

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cacccattaa tgtgctacag aattccaggg caagagctgt catatgcaag tcagaatcac 120  
tgatacacia gcatcaaaag aaaatagaat taaccattcc atatcaccta tgccaatgta 180  
cagagagtat cttagtaaga caaacctaat tagtcccgac cgttctacga taataacctt 240  
ataagcacac aaacattctt ttcaccataa gcaactataa gtgaattt 288

<210> 11605  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 11605

agcttgggaa gaaaggagaa tagctataaa gacaaaaata gacagcttgt tgaaggctga 60  
tttcatttgc gaagtgaatt acaccaattg gttagccaat gtgggtcatgg taaagaaagc 120  
aactggaaaa tggaagatgt gcatggatta caccaacctc aacaaagtgt gtcccaatga 180  
tgccctaccct ttgcttagca ttgacagact agttgatggg gcatgtgggt tcagggtgct 240  
cagtttctta gatgcctact caggctataa tcaaatcaag atgtatctac ccaaccaaga 300  
aaagacaaca tttgtcattg atagggctaa ttttttctat aaggtaatga ctt 353

<210> 11606  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11606

tgcccttggtt aaccttatta cccaactggc cctgagtcac aaatctgcac ctatcaccag 60

actctgtggt ttatgcatcc ttgtccgacc accacacaaa cctttgacct ttagggcaac 120  
aaactgaagc aatagaacag cctgaagctg atgttgcaaa catntacaac aaatctctc 180  
aacctgaaca gcataaacag cctcaacaca atgactatga cctttccac aacaggtaca 240  
ctcccggatg gaggaatcat cccaacctta gagggacgaa tccttcacaa cggtgcagc 300  
aacaacaatg gacttattat caaaatgctg ctggcccatg cagaccatcc attcctcagc 360  
cgatcc 366

<210> 11607  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 11607

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caaagatcga ttcaggcgca tgatatatcg agacgctcga aattgaacaa cgaaagctct 120  
cgagaaaatc aaatgggcat aacttttcaa aaggaagttc cgattcaggc gcataatata 180  
ttgagaaggt cgaaattgaa caacagaagc tctcgaggaa ttaaattggc ataacttgta 240  
aacggaagtc cgacttaggc gcataatata tccagacgct cgaaattgaa caacggaagc 300  
tctcgtaaaa ttca 314

<210> 11608  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 11608

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cttcacggag aagaaagaca agaacaagtt caccaccata tgaagccatg gataaaagca 120  
cgaaggttgg agaatatgag cggagggaga gggagagaaac gggcacgaaa cttatgcctc 180  
caatgaggcc tacaaatcga agctgagatc ctacatgat caacgtagaa ataacgcaca 240  
ctaaacgccg ctatatatag cctaacggtc acatgaaact ggagggaa 288

<210> 11609  
<211> 348  
<212> DNA



<213> Glycine max

<400> 11609

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tcttctatctt tcagattggg gatgccttta acagcacctt tgtcaatgat tttcttcatg 120  
cctctcaagt gcagatgtcc aaatctttga tgccatattc tgacttcac cttctttggag 180  
gatagacatg tggaggagta gctgggttct tgagggtgcc ataggtaaca gttgtccttt 240  
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
tgtgaagtta cattgaatcc ttcacacac agctgactga tgctgac 348

<210> 11610

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11610

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gnttacgtgg gtgggtgcta cacttccatt gttttgcttt tggtgtgtgg ctttcataat 120  
tcagctttca taattcattc ttgtaagtg tttttttaa ataaaattta tatattctga 180  
tttataattt ctgttcttaa attcttataa taggttagtt agtattaata ggtattataa 240  
atatacgtta attaggatta atatatattg taaggtaga ttagttacta tgatgntttt 300  
aatttttatg tattaataga tatttgaaga ttaggttatt cttaatagat atttaaagg 360  
taggttagtt agtttggtt gttgtatata cttttagata ttatatatgt gatataatat 420  
tattagtntt agaaatatt 439

<210> 11611

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11611

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ctccattctg atttataatt tattgattca gntctcttga ctttcatgtg aacagggtgat 120

tgcagagtat ttgtccttat aagaagctgc tggaataaaa gagggattcc aactgatgga 180  
tacaagccat aaaggcaaga ttaacgtcga tgaactgcgt gtaagggttc ataaactaag 240  
tcaccaaatt cctgatgggg atatccaaat acttatggat gctgtgagta tttttcactt 300  
tatctggaaa ctcttctttt ctgtttgttc tacacttgat gtgtgaagaa ataagtagtt 360  
tggtctcttt gttttcacia ctttatgttc attgtaatat atcaaactaa ttaattgcaa 420  
act 423

<210> 11612  
<211> 462  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11612

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ccgtgggacc ctcttaatgg ccacatcaca agatggaaat ggtggcgtcc ttcctctagc 120  
attcacgatg gttgaacgtg agacgttgac agcgtgggtca tgatttttgg cacacttgcg 180  
tgaacacgtc actgataaaa atgggtatttg tctcatttct gatcgacacg cgagtataaa 240  
gtccgctgtc gctaataaag cacttggttg gcaacctcct cacggttatc atgtctattg 300  
cgtgcgacac atagcaagca acttcaatcg aaaattcaat aacgccaaac aaaaagaaat 360  
gtttgcagaa gtgggtaaga attcatattt aatggtcacg tttatttaac ttccttatat 420  
acttaanatg ggtattggat aactaattta tgcagcctac ac 462

<210> 11613  
<211> 208  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11613

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gacacctttg aagtattcaa agaagtgagt ctaagacttc aaagagaaaa agactgtgtc 120  
atcaagagaa ttaggagtga tcatggcaga gagnttgaaa acagcaagtt tactgaattc 180  
tgcacatctg agggcatcac tcatgagt 208

<210> 11614  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11614

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 atattaaggt gattgagtat tcagactcat actttgttgg atgtgtggat ataaaaaaat 180  
 ccactctgtt ctatgtctnt cttttagccg aaggagcaat atcatggaag attgcaaagc 240  
 aatcagttgt tgttgcacat accatggaag atgaatntgt agcctgtttt aaggctacaa 300  
 tttaggctaa ttggctgctg aactttatct cagagcttgg aattttcaat agtattgcta 360  
 ttgtcatacc ctaatttcgt 380

<210> 11615  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11615

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 ggagaataga gatcataatg aagaagaaag gaggagaaga ggaatgatg gtgttcctag 120  
 aaaaaaccga attgatggtt ttaaaactcaa cattcctcca tttaaaggaa agaatgatcc 180  
 ggaggcctac ttggagtggg agatgaaaat agagcatggt ttctcatgca acaactatga 240  
 ggaggaccag aaggatgaagc ttgccgccac agagttttcc gactatgctc ttgtgtggtg 300  
 gaacaagcta caaaaggaga gagcaagana tgaagagcca atggttgata catggacgga 360  
 gatgaaaaag atcatgagga agcgggtatgt gccggctagt tactcaacgg acttga 416

<210> 11616  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11616

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aaagttatta taatacactg aagctccatt aaaaattgaa ccatgagtag ataattatta 120  
tactacattg caactgcatt aaacatgtta ttgttattaa ccaatttcaa gacctagagg 180  
accccttccc ttatttttga gaaaactacc ttaatataat ctacttctgt aattaactaa 240  
ggagttgaga gaatctatcc tagagtcacc atttctcctt ttaagcagct cttgatgtca 300  
aatgcccagg cttgctagat tatattatgt cattntgtat tggtttttct tcgaaaattt 360  
atgtggaaca ctctggata aagtttagtt ggtttcagtc tgagagacct ggatttcaat 420  
tcattacctn catggatnga gtcnnnataa acaatttata cattntttct ttcatttat 479

<210> 11617  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11617

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caattttctg ttttctgctt ctaattacaa tttcgttctt gcttcttctt ctactttcat 120  
ttacgtttct gtctcattta cgtttctggt tcatattacat ttatgtgcat ttacgtttct 180  
gcttcatggt tcatttgctt tttctggttg aatctatgga aggctagttt ttctgggtgtt 240  
gtttcctttt gaggacgaag cccaactctc tttgaggttt cgtttgtaat gtggtttctt 300  
ggcagttntc ccttcaccag ttatcccaaa ttcgtgaaca ttaatcagtg cacccttctg 360  
gttcgattaa ttgcctctga gcctaacttg cgttcatgct taatggacga acggctaact 420  
ggtgtatgtg gtgcctaata acgtattgac aaccct 456

<210> 11618  
<211> 150  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11618

caacagaagc tctcgagana ttcttatggt ctatatcttg tcacacgaag tccgattcag 60  
gtgcgtaata taccgagacg ctcgaaattg aacaaccgaa gctctcgaga aattcaaag 120

ggcataactt atcacacgga agtccgattc

150

<210> 11619

<211> 340

<212> DNA

<213> Glycine max

<400> 11619

tcacacggac cgtcgattca ggcgcatata atatcgagac gtcgaaatt gaacatcgga 60

agctctcgac aaattccaat ggtcataact tttcacaagg aaccccgatt ctagcgcatc 120

acgtatcgag atactctgaa ttgaaaaccg gaagctctca agaaattcag atggtcataa 180

cttgtcacac cggagtccca ttcagacgca taatatatca agatgctcga aattgaacaa 240

cgaatgctct cgagaaattc aaatggtcac aacttgtcac acggaaatcc gattcaggcg 300

cataacatat ccagacgctc taaattgaac aaccaagct 340

<210> 11620

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11620

gctgagggtg gttgccacc atctnttcat agtagaatac tggttatgtg tctactatca 60

tcgncatcat tnttttctcc gtcattgagg tgccacttga gctgccaggt ctctccacct 120

ttgggcgtat tcttttgaaa gattcgtgcc cccttnttgc acatgttctg tagttgcatc 180

ctatctgaag acattatact gacactgcct aacgaaggca accactaggt cttccaaga 240

atggactcgg gaaggttcca agttagtgtg ccaggtaaca actaccccaa taagactttc 300

ttggaaggaa tgtatcagca attcctcatc ttttgtgtat gccncatct tccgataata 360

catctttaga tggttcttgg ggcaagtagt ccccttgtag ttgtcaaagt ccagcacc 418

<210> 11621

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11621

agcttagcta cacacacctc tetaatagct aagtttacct ncttgagatg agaagctaga 60  
gcttagctac acacccccta taatagctaa gctcaccccc atgacaaaaa acatgaaaat 120  
accaaaaaaa agtccttact acaaagaata ctcaaaatgc cccgaaatac aaggctaaaa 180  
ccctatacta ctagaatggc caaaatacaa ggcccaaacg aaggaaaaag ctattctaatt 240  
atttacaag aagagtagat ccaaccttta cccatgggct caaaaatcta ccctaagggtt 300  
catgagaatc ctagggcctt ctttagtagc tctagcccaa gcctcttga gtcttctatc 360  
caataccct 369

<210> 11622  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11622

attgacaata actntntact gggatgtctg tattgggtcc cgtcatatat cgagacgctc 60  
gaaattgaat gttgaagccc tgtgctaatt caaccgacaa taactnttta ctcggatgtc 120  
tgattgagtc ccgatcatata tcgagacgct tgaaattgaa tgttgaagct ctgagccaat 180  
tcaaacgaca ataactcttt actcggatgt ctgattgagt cccgcatatat aacgacacgc 240  
tcgaaattga atgttgaagc tctcagccaa ttcatacaac aataacttnt tactcagatg 300  
tctgattgag tc 312

<210> 11623  
<211> 251  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11623

cttcaacatt tcaatttcga gcgtctcgat atatgacagg actcaatcag acatccgagt 60  
aaaaagttat ggtcggttngg aatggctcag agcttcaaca ttcaatttcg agcgctctcga 120  
tatatgacgg gactcaatga gacatccgag taaaaagtta ttgtcgtttg aaatgggtca 180  
gaggttcaac attcaatttc gagcgtctcg atatgtgacg agagtcaatc agacatccga 240  
gtaaaaagct a 251

<210> 11624  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11624

agagaggctc acaggtagcg gtgaactgcg atatgaactt ctctatataa tttagggtgcc 60  
 ctaagaaacc ttggacttgc ttttcggtgc gcagtttggg catttcaagg atggccttca 120  
 ccttgtagag atcaacctct atccctttct ggctcacgat gaagccgagc aattttcccg 180  
 acttgaacaa cttccacagt ttctogaaca acttccgaaa gttgacgagt tgctcctcct 240  
 cggttctaga cttggcaatc atgtcatcca tgtagactnt aatctctttg tgcacatata 300  
 catggaataa tgctaccata gctttgtgat ag 332

<210> 11625  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11625

taacagaggc atgcaagcat gcctagttgc caatatatat catcaaaatt gtanatatat 60  
 attatgacat aactntttct cttgtggcaa tgctcatatc aatttagatt cttcttgcta 120  
 taacaacata ctatgatcat gaaatatgaa aaatggatgt ggaaaacggc tntccttaat 180  
 ggtgagctaa aatatgtttc ctttaataaag tctacaagtt tcaacaatac atttatggat 240  
 ngaaagaagt gtctagaatt tggagcattc attntaacia gataattgaa tngtttaatc 300  
 ttggttagcta tgaagaagaa ctttgtgagt aaaaaaagggt tactgggagc attacattta 360  
 tatgtagatg acatataaaa taatacacia tataatgaag aaagatntga ctactaatat 420  
 attatcaatg aaatatntag gagaaacaat attttaaaaa taaagaatta ttgagata 478

<210> 11626  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 11626

agcttgtcta gttgccaata aatatcatca aatgtgtaat atttattatg acataacttt 60  
ttctcttgtg gcaatgctca tatcaattta gattcttctt gctataacaa catactatga 120  
tcagtgaata tgaaaaatgg atgtggaaaa cggctntcct taatggtgag ctaaaatatg 180  
tttccctaata aaagtctaca agtttcaaca atacatttat ggattgaaaag aagtggtctag 240  
aatttgagagc attcatttta acaagataat tgaattgttt aatcttggtta gctatgaaga 300  
agaactntgt gagtaaaaaa aggttactgg gagcattaca tttatatgta gatgacatat 360  
aaaataatac acaatataat gaagaaagat ttgactacta atatattatc aatgaaatat 420  
ntaggagaaa acaatattta anaataaaga attattgaga tagaattaga 470

<210> 11627

<211> 481

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11627

agcttccaag aatcaagatc aagattcaag actctatatt caagaatcaa gagaagactt 60  
aatcaagata agtatgaaaa agaattttca aaaaatgagt agcacatgga ttcttctcaa 120  
aatatgttta ccaaagagtt ttactctct ggtaatcgat taccagattg ttgtaattga 180  
ttaccagtaa gcaaaatggt tttcaaaaag ctttcaactg aatttacaac attccaattg 240  
atttcaaaaa gctgtaatcg attacaatgt ttgggtaatc gattaccagt gtgcttgaac 300  
gttgaaattc aaatttaaata gtgaagagtc acattctttc acaaaaaagc tttgtgtaat 360  
cgattacact gatttggtta tcgattacca atgattgttt ctgaataaat caaaaaatgt 420  
aactcttcan atgggtttttg acttttttca aatgggttta agtntttcta aaagtcataa 480  
c 481

<210> 11628

<211> 487

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11628



agcttaataa atctatatat gggttaaaac aagctttctt gttcttggtta ccttaagttt 60  
tatgggataa tttcttcatt tgggtttgat gaaaaccca tggatcaatg catataccac 120  
aaggtcagtt ggagtaaaat attttttttt ttatatatgt agatgatatt ttacttgcag 180  
ccaataacat gaggtgaaac aatttctctc taagaatttt gacatgaagg atatgggtga 240  
tgcactttat gtcactggca ttaagattca taaagataga ccttgatgta ttttaggtct 300  
attacaggaa acctatatta acaaaatttt agagattntg gatgaaagat tgttcaccaa 360  
gtgttgctcc cattgtgaag gggtgataag tttaattgaa ccaattctca nagaatgact 420  
ntgagagggga acaaataaaa aatattcctt atngctttgt tgntggaagt ctcatgtata 480  
ctcaagt 487

<210> 11629  
<211> 443  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11629

ctcagcttaa ctcatgaaga agtctcaaat ctctatcat ataattagat gtcctatat 60  
caataattca caccgtgttt ttacctatca ttctttctat ggtgcttccc ttatgattgt 120  
tcagaagatt caccagagtt tgccactact cactgctcaa acctgtcagt ccgcccttgt 180  
gtgtatccat cgcttataga atcgnctctc cattggaatg accatttttg atacccaacc 240  
acctgaaaac agtttgtggc atcatgtctt gttcggttgc agtgcccaca aaccgtggac 300  
ttgtcttttg catctncacg ccctcttgtc ctccaccaa tttgcacagc cagaacaaca 360  
acttcccctc gttcctcctt ggttctggag attgccttca cacgtctntc ttgtatgaga 420  
gtagcatata ctctgttaaa tga 443

<210> 11630  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11630

gtggtaatca gagcacaaga gcttcaagtt gccatatagg gaattggaag gaggattggt 60

gccatccctt gaagaatttg agtcaagaag caaggggcca accaccttat gagctatngg 120  
 actaagaagc actccaaatt gggatgaatca ccaaagagag aaaaaccacc aaaattgagg 180  
 accctttttgc aattctgttaa ttgacaattt actttacttt catttgcttat caaatttgta 240  
 acaaaaaggc ctttcattgg aagtaagtag ggagcctcca atagggcacc ctacttacct 300  
 ctgagtgaat aaatttaggc aattttccct tatgattgtg agtgttttgt tgggaacctt 360  
 aaaagtggtc atccaaacac tcataggata tccctagatt acatatctcg cttact 416

<210> 11631  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11631

ctcataactg aagaacttac agcagatttt gtgtattttc ggcacagtt agtaccattt 60  
 cctttgaaca gcccacgaaa accttcagtt ctccatatat atttttagacc ttgaattggt 120  
 ccattgtatt taatgctgtg tggattctga acctgtaaat ggcagaggca catcacatcg 180  
 cacatatgat atcgatacac ccaaccacaa aagaaccaac aaaaaaggta gcttgtcaga 240  
 tgcacttttt ttctttataa caagaataaa tgatagctaa atccacattt aaaggtaaac 300  
 aactatatgg ggattaacct gtagcaaaat cttcaagcgt tccagtggag caactgctgt 360  
 tcgtgatctg catatataca aaaaagggtc aaatcaatta aaactcgaca taatgcaaaa 420  
 naggatgttg aaattatcag taagaaatag tttccaggaa aattggat 468

<210> 11632  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11632

tactaagctt cttagaaaac gtggcattgt gcgcaatata caatgccttg tttaccacaa 60  
 caaaatggta tatcagaaaag gtgtaataga actttaatgg atatgggtga gtatgttaat 120  
 caatttgaat ttactcgtat ctttgtggat gtatgccttg aaaactgtca tgtaattggt 180  
 gaataggggt cctagtaagg cagttccaaa gacaccttg aaactctgga caaataggac 240

acctagtata aggcacttgc atgtttcggg ttgtcaggca gaaataagga tttataatcc 300  
gcaagaaaga aaattggatg caagaacaat caatggatat tttattgggt atccagaana 360  
atcaaaggag tatatgttnt attgtcctaa tcatagtatg agaattgtcg aaactagaaa 420  
tccaaggttc attgaaaatg gtgaaatcag t 451

<210> 11633  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11633

gcttacaata gagctgttca tatcaccact aattgttctc ctnttgaagt atgttatggt 60  
tttaaccac taactcctct tgatcttttg cctatgccta atgtttctgt ttttaagcat 120  
aaagaaggtc aagcaaaggc ggactatgtg aagaagcttc atgagagagt caaagatcaa 180  
attgagagga aaaataaaaag ctatgctaaa caagccaaca aagggcgaaa gaaggttgtc 240  
ttcgaacccg gagattgngt ttgggtgcac atgagaaaag aaaggtttcc ggaacaaagg 300  
aatcaaagc ttcaaccaag gtgagatgga ccatttcaaa tgctnganag aatcaatgac 360  
aatgcttaca aagttgagct gcccggtgag tataatgtta gttccacctt caatgtctct 420  
gattnatctc tttttgatg 439

<210> 11634  
<211> 475  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11634

tatcagatcc tgaaataccc nctcaccact gagtctgcct gattaagatt gaggacaaca 60  
acactttggt tttcattgtc gacctgcgtg ccgacaagaa gaagatcaag gatgcggtga 120  
agaaaatgta tgacatccag gccaaaaaag tgaacacctt gatcagggtga gcatctatgc 180  
aatgattgca gttttgatag taatgatttc atattgcatt attgctgatg aaatttggtg 240  
attggtagtg atttccgtat tcacttagtg gtataaggta ttgatgttgt tgtgaaattg 300  
atgcatgatg tcatgatgtc acatgacgtc acatgtaatt tctagttttg atatcttnt 360

gaagaccctg ttatgttgat gcatgatgtc atgatgtcac atgtaaattc tagtctgtc 420  
tgtacactct agctnttttn tcctaccttt aaacataatg gaatagtcct gttct 475

<210> 11635  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11635

tgggcttact attctcatcc natctcatca atacattaaa gttatatgat tngacttntg 60  
cactgatgga agggaatacc actatctact cgaatacccc taacaagctt gtaggagctg 120  
tcggtaaata aaggctctca ccatccattt caattttctc caactcccta ccacatatgg 180  
taaaaataaa cattaacttc tatcaaagac acattgaaaa tttaacataa aaatccacaa 240  
taaaaataag ccttcagaca ttnggccagt acctccggat accagctcgg cgttcttctt 300  
tagggagtgg aaatagtaca ccagagatgg atgtaacttt gtcaaagaaa tcaaactctc 360  
tnttaaatat gtcaa 375

<210> 11636  
<211> 499  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11636

agtcacctga ggcattgcaag cttatcaaca tcaaacttgg agaaagagtt cttgtggtct 60  
ttacatgaga agcaatcaag tataatgtta cttccttcac taaagcgggtg atccatctcc 120  
acacatattn tatcaatggc aacataaaaa atctttgcac ggaatgatga aaataatgat 180  
agtcctcctt ctgctcttga cgaccccgaa ctgtatttgc tcatccatat ttggtaccag 240  
aatactttta gcaacacaaa atccttggac atcggcaaaa aaattattcc agccactctc 300  
tctcattgtg cccaaccgag ctttgacaac atcaactaat tccatggcat tcacaatatt 360  
aagatctttt ctttgcaata tatttgaaag ctcatctgtt tctatgacct ggacacgcac 420  
aatctcattt gggtaaactc attaaccaca tttatgtggc ggtctaattc ggcttcttgg 480  
tgacaacatt cacattctc 499

<210> 11637  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11637

tcagatttac tttcagtcac ctcatccaag actttgtttg cattctttat cttgccatct 60  
 tngnacaacc tgcacaaaat tgaattaaat ttaacaactc cagggcacaa ttaatccctt 120  
 agcctccatc attcctttca ttnttagagc tttatctaga tgatttgtac atgacaaata 180  
 catatttgag caacattagt tctactagatg tcattatgtc cttccttcac cctgataaca 240  
 tagtccttca ggctgggtcat gtcacacca ctcttagtgg agtgatacct cagcaattca 300  
 gctagctntg tcttgttntg agaatccaca tcaagaccaa gtttaagggt gttagagaag 360  
 gcttcataaa acttgttata gtcttacaag gctagtaacc ttgatggtaa caagtacgtc 420  
 attggcatga ctatagtttt tcaacatggg agtatactag tatgtctaata gcctcatgga 480  
 anttcagtga tatt 494

<210> 11638  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11638

ctgcagcttg aaagcacatg attttgacaa actttttacca agagtnttac tctctggtaa 60  
 tgcattacca tattgttgta atcgattact agtagcaaaa tgagtttgaa aaagttttca 120  
 aactgaattt acaacgttcc aaatattttc aaaaggctgt aatcgattac aatggnttgg 180  
 taatcgatta ccagtgtcct tgaacgttga aattcaaatt taaaaatgaa gagtcacatt 240  
 gtttcactca aaaactttgt gtaatcgatt acacttantt ggtaatcgat taccagtgc 300  
 tgtttctaaa agggttttta gt 322

<210> 11639  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 11639

actcggatgt ccgatttgtt cccgtagtat atcgagacgc tcgaaattca gaatagaagc 60  
tctgagcaaa atcaatcgac aataacattt tactcggatg tccgattgtg tcccgttgta 120  
tattgagacg ctcgatattc aaaatagaag ctctgagcaa aatctaacga caataacttt 180  
ttactcggat gtccgattgt gtcccgtctg atatcgagac gtcgaaatt cagaacagaa 240  
gctctgagca aaatcaatcg acaataacta ttactcggga tgttcgattg agtcccgatg 300  
tatatcgaga cgcttga 317

<210> 11640

<211> 429

<212> DNA

<213> Glycine max

<400> 11640

ttctcataag cttgaaatct caatttctga aattcatgaa gttggagctt cctgtgttcc 60  
ctagctacat tgagatcaaa atttagaaac ttcaatgcc agtaagcttt gtgctccaac 120  
tcaacaggta agtgacaaga ttttccatag aaccaatgga agggagttag tcctatagga 180  
gctctgtatg ctatttcata tgcccacaga gtcctatcta atgaccgagc aactgttttc 240  
tctaggatct tcttgacttc cttgttagaa acttcaactt gccatttggc ctgggaatgg 300  
taaggtgagg ctatcatgag tctgacacta tagtggttga gaactttctt gagttggaca 360  
ttacagaaat gagatccttc gtcatttatc agtacccttg gtgtgccaaa cattgaaaat 420  
atgttttct 429

<210> 11641

<211> 227

<212> DNA

<213> Glycine max

<400> 11641

agatcacat tcatgaacgc cgttttcaca tacatttgat gcagctcaag atcaaaatga 60  
gctactaatg ccagaattac tcgaagagag tctttcttag atacaggga taaggtctct 120  
ctgtaattga ttccatctct gtgagtcgaa tcttttagcaa caagtcttgc tttatgtctc 180  
tcaatgggtgc cttctgagtc tttctttggt gagaagaccc atctaca 227

<210> 11642  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11642

tagagaagta ctgagcaccg cccaattcgt ccaacttttc attaattgtc ggaatcggaa 60  
 accggtcacg aaccgtgacg gcgttaaggg ctctgtaatc aacgcagaat ctccaagagc 120  
 cgtctgtctt gcggacgaga agaacgngg atgaaaaagg acttgtactt ggtctgatga 180  
 gtcctttttg taacatatca ttgacttgct gctcgatctc cttcttctgg taatggggat 240  
 atctatacgg atggacattc acgggattgg tgtggggaag gaggtggata tgggtggtcgg 300  
 tgtcacgggt aggaggtgaag ccggaggggt tctgaaatan ggtcgagaaa cgtgtaagta 360  
 aggcttgat ttc 373

<210> 11643  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11643

gaatcagaaa tctgtacctg tcgcaagggt ttgtggtttg tgctcctctg ctgaccacca 60  
 tacagacctt tgcccttcca tgcagcaacc tggagcaatt gagcaacctg aagcttatgc 120  
 tgcaaatatt tacaatagac ctctcaacc tcagccgcaa aatcaaccac agcagagcaa 180  
 ttatgacctc tccagcaaca gataaatcc tggatggagg aatcacccta acctcagatg 240  
 gtccagccct cagcaacaac aacagcagcc tgctcctttc tttcaaaatg ctgctggccc 300  
 aagcagacca tacattcctn caccaatcca acaacagcaa caacccaga aaca 354

<210> 11644  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11644

agcttatnta acataaatat tanaactacc attatctnga ttataaagtt ntttttaaaa 60

aaaaactatt tgatcaaaag ttttgattta ataaattatt aattaagtaa tatatgactt 120  
 ataagttagg atttatatTT tttattcatt ttatcctatt aattttntaa aaataaacttg 180  
 taccttccga taattatgat atctatttta aataaattac atgtacacat tttgtttttt 240  
 tttttatcaa atttacttta ctttaataatg aatttattaa aattttaatc attaaatata 300  
 catgcaaaca tataaatggt ttttacctca gtattttatg tactatatag ctaattaatc 360  
 aaataatttt aatcaatggt ntgaatttaa tcactaattt tcaatttata cctccagact 420  
 ttttaactca ttntnnttta taaaaaaaaa 450

<210> 11645  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 11645  
 ggacccatt tctaccaact acaagaccta ataaaactat attatctaca caagaggtag 60  
 acttctctat atttgcatag agggagttct tctaaagac tgaaagaact tgcctgagat 120  
 gtcctaagtg atcatctagg ctctactgt acactaaaat atcatcaaaa taaacaactg 180  
 gcaatctact tatgaaatcc cttagacat gatgcat 217

<210> 11646  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11646

acatcatgta tgagattcat ttactacca ataatcaatat gttatccaga tacaacata 60  
 aaatgacacg ttcatatta ttaaattggt tcacatacac acatttatca ctatcattaa 120  
 tttgaaaatc atacaaaaga ataacttaat caaacttttg tgtcaatgct ntggagcttg 180  
 tttcaaacca tacaagatt taacaattta atttttaagg aaaaagaatt tcacagaaag 240  
 tcacatctct agactccata atagtacat tagaaattgc agatacttct gaattaataa 300  
 ctaagaatct ataagtagta ttat 324

<210> 11647



<211> 323  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11647  
  
 gcgtctcgat atattacggg cctcaatcta catttgattt taanagtatn gncgnnnnga 60  
 attgctcaga gcttcaacat tcaattccga gcgtctcgat atatgacggg actcaatcag 120  
 acatccgagt aaaaagtcgt tgtcgtttga attggctcag agcttcaaca ttcaatttcg 180  
 agcgtctcga tatgtgacga gagtcaatca gacatccgag taaaaagtta ttgtcgtttg 240  
 aattggctca gagcttcac attcaatttc gagcgtctcg atatattacg ggctcaatc 300  
 agacatccga gtaataagtt att 323

<210> 11648  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11648  
  
 cgaatatatc gagacgctcg aaattgaatg tggaagctct gagccaattc aaacgacaat 60  
 aactgtttac tgggatgtct aattgacgcc cgtaatatat cgacatgctc gaaattgaat 120  
 gttgaagctc tgagcacaat caaacgacaa tataactttta ctcgatgcc tgattgagtc 180  
 ctgtcatata tcgacacgct cgaaattgaa tgttgaagct ctgagccaat tcaaacgaca 240  
 ataactctnt acatggatgt ctgattgagt cctcgcatat atcgagacgc tcgaaattga 300  
 atggtgaagc tctgagccaa ttcaaacgac aataactttt tactcgatg tctga 355

<210> 11649  
 <211> 218  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11649  
  
 ctctgagcaa attcaaacga caataacatt ntactcgat gtccaattga atcccataat 60  
 atattgagac gctcgaaatt tanaacagaa gctctaagca aattcaaacg acaataacat 120  
 ttactcgga tgtgctattg agtcccgtaa tatatcgaga cactcaaaat ttaaacaga 180

agctcataga aaattctaac gacaataaca ttntactc 218

<210> 11650  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11650

ataaaggtag tagtgccatg ttttcaaagc ccgtactaag gcatacaact ccttatcata 60  
agttgaatag ttaagggtag gaccacttaa cttttcacta aaataagcaa ttggatggcc 120  
ttcttgcac aacacagccc caatcccaac atttgaagca tcacactcaa tttcaaaaaga 180  
tttttgaaag tttggcaacg caagtatggn ggcattagtt agcttttgct taagaacatt 240  
gaaagcttct tcttgtttct cttcccattn gaaaccaaca tttttcttga gcact 295

<210> 11651  
<211> 289  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11651

gatatatcga gacgctcaaa attgagatcc gaagctctga gacaatagaa ccgacaataa 60  
ctntatacac ggatgtccga gagagtcccg tgatatatcg agacgctcca aattgaaaac 120  
gggaactctt agaaaattca aacgacaata actacttact cggatgcgcg acagagagaa 180  
gcaatatatc gagagatgct ccaaattgat tacgaaagcg cggagcacat gcaaacgaca 240  
ataacttttt actcaggtgt ctgagtgagt cccgaaatat atcgagacg 289

<210> 11652  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11652

ctcccagata gtgaatatgt gatctatggt gttctcttca caggccactt gatcaacatg 60  
cccaacaagt gatatcaaat gataccaaca ggtcacttgt ctttgattga ttacttttga 120

tggttgtttt ctacttgagt ttagattgtc cttgatgatt gattgattnt ttttattgat 180  
 gtgtgtgttt ttgcttgatt gatgttcaat gtttgttact ttgattgatt gattatattn 240  
 tatatttgat tacttgtcct tgataattgc ttntgtattg gtgtttgcta ttgattgagc 300  
 ttgattgatg tgttattgta ctcgtttatg cttgattaat attgaatgag tgtttaatgc 360  
 cttttggatc acttgattct atacattaca acaagtggaa catttttctc tcttatcat 419

<210> 11653  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11653

atcctctgag tcacctgagg ctgcaagcta caactntatc ttccacaatt ttgctctttt 60  
 acttgttatn natatnnttc taattaatat ctaacagagg cctcttctat atagatatct 120  
 acatgtccat ctattatcga acctacgata gaaacaagaa ctaaaatggg aatatcccaa 180  
 cgaaatagtc ttaaaattag taggcacaac aatctaacta gcatcatgga ttggagtttg 240  
 acccccanaa gactccaaat cggggccaccg aacaaatagc acaggggtggg taaaaagatc 300  
 ccgaatgaaa atagagactt atatctattg tagtaagtcc caccttttag tgattgtagt 360  
 aactctgggt taatagtcgt tagaatgtct ctntcatatt gaggggaattt atctaattggc 420  
 attcaatcac agaatcca 438

<210> 11654  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11654

gatctctgat gttaggataa atatctcctt tcattggatg anagtatgaa atgttgggtc 60  
 ttattcctct ccatagttca taataagtct ttctaataca tgggtgccatc tatattatgt 120  
 tttgaacata gcaagctatg tttaccgctt ctccctagaa gtttttagga agtgagtttt 180  
 caciaagcat ggtcctagcc atttcttgca gaggtnatt nttcctttca actaccgat 240  
 tttgttgagg tgttctcggt gaagagaagt taaggaagat accattcttt tcatagaatg 300

atntanactc aacattctca aactcaattt catgatcact cct

343

<210> 11655

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11655

aattacttaa aggatgtttc tgaatgtgaa ccatatacta agtcatgcaa tctatacaga 60

cacagattga gatgagtcta agaatatatg aaatatccaa gaatggattc accatattag 120

anacacacct ggatttctgg atcagcaaca acatactgct tcaggagtct atcaccaaact 180

gcacgtgaaa cagcaagaac tccaccaact ctccaagttc ctgtaaacad agtgtttaga 240

atttccatag tgacaaacaa gatgaatctt ataataaatc aaataacana cagctaacta 300

gaagataacc ttaccagccc acataacana gccacctgca tcttcaatcc ttcgcctctc 360

atcagttnga tct 373

<210> 11656

<211> 281

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11656

aaaaacaact aacgcatgtg ggatggcatg ntgcttacia tctgcgataa ctgtagtaaa 60

aacaatcttc tttaaaagac cctttgacct taaaattoga agtggaacgt gctgcatcag 120

tggatgcaca ctgattatta tatctggctg atattacatt aggccttggg caacctcgct 180

gtaaaaagag aaaagatatt ttaactatga catgtgatgt tacattggta ttgagaagag 240

atcgcgatgc acaataaagt attctctgaa ccatggaatg c 281

<210> 11657

<211> 274

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11657

ccttatngct aatgattatg ccatgttcat ctaacttatt cctaagtacc cattttattc 60

ctatgatggg agagatttca ggtctcgtta ctacgcacca cacattgggtt ctttcagact 120  
aatttaattc ttcttgcata gcaactatcc aatgatcatc tattatgggt ccatctatgt 180  
ttgtaggttc acccatagac accaaattca tactatagca taagtctgta agagaatggc 240  
taatcggtac cccttatgag atatcacaaa taat 274

<210> 11658  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11658

gatggcttct tcccattcca agcttcaatt ggagtcttat cttntacaga cttagttagga 60  
cattctgtga gtatgtaaac agcagtgtag actgcttcag ccagaatgt gttaggtagt 120  
cccttttctt tgagcatcga tctagccatt tccataacta tgcgattctt tctctcgga 180  
taatccattt gttgagaaga atatgcgact gtaagttatc gctcaatgcc ttcacctca 240  
caaaatcttt caaacttgcg agaggtgtac tctttgtcgc gaacacttct taagtactt 299

<210> 11659  
<211> 263  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11659

tcttcaagaa gagagccttc cncaacagct aatttcaatc attatgcatt gtattaattc 60  
agtccaatct aatctattgt ggaatgggtca taagggtgcc cctttcttac ctcaatgtgg 120  
ctcgagacaa ggagatccca tgtctccgta tatttctgtg acgtgtatgg ataagccatc 180  
tcatataatc ctttaagctc ttcattgcaag tcaatggaag cctatgagag ctggtcgaaa 240  
tggaaccattc atttcacact taa 263

<210> 11660  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 11660

tgaacctaca acagtcccag aattctgaca atctgccttc taaagctgcc caaaatccca 60  
aaaatgtcag tgccatttca ttgaggtccg gaaaacagtg tcaaggacct taatccgtag 120  
caccttcctt atctgcaaat gaacctgcc aacttcactc tactccagaa aaaggtgatg 180  
actaaaattt acctaacaat ttctgtgcaa gtgaatcttc tctcacaggt aatactgatt 240  
tgcaaaagca gcacattccc cctcttccat tcccttcaag ag 282

<210> 11661  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 11661

tgacaccaa gtattccatc tatggttggt ttaccgattc acatcctcag acaatgggga 60  
aaggtactg ttattgatgt caaacacaac ctcttggcat aagcgggtga aaaggtctgc 120  
aacttcagca tcaactacaa gccaatgctc aattatgcc cgataatgaa ggtacccac 180  
atcctctggg gagttaatca agttgtccat gaagataaca taggatgtaa tgtcattgct 240  
gcaatcaaga tgacactgct caaaggcaat caggttgagg aacaaagact tggtagcgtc 300  
gtggatcaag agccgtggta ttcgcagttt gccatcctta aatttgatgt cccagaagcg 360  
atcggctctt tttttttt 378

<210> 11662  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11662

gcatgggcag ttatgtctcc gcatngatng gtaaactctgt tectcanatt cctgnaaaat 60  
gcaaagaacc aggtacattc agcatacctt gtattatatg gaatagtaag tntgacaatg 120  
ccatgctaga tttangagcc tctgntagtgt ttatgcctct gtogaatttt aattctctat 180  
ctctaggtcc cttgcagtca actgatgtgg taattcatth agctaataga agtggtgtct 240  
atcctgttgg tttcatagaa gatgtcttac gtagagttgg tgaactgatt ctccctgttg 300  
tttttatatc ttgaatatg 319

<210> 11663  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11663

atcttacacg atttccattt ctctgtgtg ataagaaaat atattatata gtattccaat 60  
 tggcacttgt tattttctac aaaagtaggt gagatctgct agtgctaattg atatattcac 120  
 tatgtataga actatgttat ttatgaattg gccacaagct cttaccttac aactgtcaat 180  
 gtaatgtggc tcattggata tttatatgca ctttcgtgcc actgtcagtc tgttatacta 240  
 gattaccttg ccagcaagac tatntgttca gatgatttgg tagttgtctc accagatgtt 300  
 ggcggtgttg ccagagcacg tgctt 325

<210> 11664  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11664

aatgtccgat tcgngacat aactcatcta gacgctctaa attgaacaac gcaagctctc 60  
 gagaaattcg aatggtcata acttttcaca cggatgtccg attcggggac ataactcatc 120  
 tagacgctcg aaagtgaaca acggaagctc tcgagaaatt cgaatgggtca taatatttca 180  
 ctcgatgtc cgattcgagg acataatata tcgagatggc caaaattgaa caacggaaac 240  
 tgtcgacata ttcgaatggc cataactttt cacacagatg tctgattcgg ggacataact 300  
 catctagatg ctcgaaattg aacaacggaa gctctcgaga aattataatg gtcataactt 360  
 ttcacaccga tg 372

<210> 11665  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 11665

ccttatgata tcaaacataa attgggataa ggtcatatcg taaccgatgc tctctctccg 60

cgatcatgcat tacttttctat gcttgaaaca aaatagactg gtcttgattg tctgaaaaac 120  
atgtatgaaa atgatgaaac ttttgagagag atttttaata attgcgaaga caatttata 180  
catggtttct ttagacatga gggcttcctt ttcacagaaa acaaatgtg tgcgctctaaa 240  
tggtctac 248

<210> 11666  
<211> 265  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11666

gaatatatcg agacgctcga aatngcatatc cgaagctctg agacgactca aacgactata 60  
actatttact ccgatgtctg atgtgagccc ggaatatgtc gagacgctcg aaagtgaata 120  
ccgaagcttt gagcagtatc aaacgacact aacattttac tcggatgtct gactgagtcc 180  
cggaacatat cgagacgctc gaaatggatt atcgaagctc tgagcagcgt tatacgagga 240  
taacctttta ctctgatgtc tgatt 265

<210> 11667  
<211> 369  
<212> DNA  
<213> Glycine max  
<400> 11667

taacaaaagg catgcgaagt ggggtggaatt cctagagcaa ttcccttatg ttatcaaaca 60  
taaaaaggga aaaggtaata ttgtagctga tgctctttct cggcgtcatg cattactttc 120  
tatgcttgaa acaaaattga ttggctctga atgtttgaaa aacatgtatg aaaatgatga 180  
aacttttgga gaaattttta aaaattgtga aaaaatttta gaaaatgggt tcttttagaca 240  
tgaaggcttc cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt 300  
gcttgtttgt gaagcatatg aaggagggtt aatggggcat tttggggctc aaaagactct 360  
agaaacatt 369

<210> 11668  
<211> 284  
<212> DNA  
<213> Glycine max



<400> 11668

gttcctctcc ccatttgaaa cctgcatttt tcttgagcac tcgattggga ggtgctgcca 60  
atgagctaac gttgttcaca aactttatat ggaaactggc taagccatga aaactcctca 120  
cctgggtcac agacttacgt gtaggccagt cttgaatagc cctaaccctg atcttatgaa 180  
cttgcactcc ttttgaactc acaccaaaagc caagagacac aacatgggta gtacatagga 240  
tgcattgggc aagattggca tacaatgggt cttttctaag caca 284

<210> 11669

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11669

gctctcgaga aatacttatg gtcataactn ttcactcgga ttgccgattc aggtgcataa 60  
catatcgaga cgctcaanat tgaacaacag aagctctcga gaaattcaaa tggtcataag 120  
ttttcacatg gatatccgat tctgtgttat aatatatcga gacggtcgaa attgaacaac 180  
gactcgagaa attcaaattg tcataacttt tcaactcgga gttcgattca ggcgcataac 240  
atatcgagac actcggaatt gaacaatgga agctctcgag aaatacaaat ggtcatagac 300  
tttcaactcg atggccgatt aaggcgcatc acatatcgag acgctc 346

<210> 11670

<211> 383

<212> DNA

<213> Glycine max

<400> 11670

ctgatgcaac atttgagag gttaatgaat cttcgagatg atgcgctcca tgagagggtg 60  
gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaaag 180  
aatgatccag aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat gggtgataca 360

tggaacggaga tgaaaaagat cat

383

<210> 11671

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11671

gtgtntagtc tgaattgggg ttgagtactt accctnttct gctctcctaa cctcgatatgg 60  
tatttctcac agactaattt gtccccacac tcatcatcaa aatggtgtgg ttgaaagaaa 120  
acacagacat atagttgatc tgggccttac cttgntacat catgcatctt tacccttata 180  
gttntgggac tatgctgtta ctactgtttt ctatctaatt aatagacttc ctaccacttc 240  
cctcaactnt gctattccct ttgtcactct tttcaacaag gatcctgatt tccaattcct 300  
taaaactttt ggctgtgcct ttttttctt ttgtagacc ttatcatact canaaactta 360  
attntcgtc tcaagagtgt ctgttngng tactcctcat ctcataaagg tttcaaagt 420  
ttgtcttcaa ctggcagaat ttata 445

<210> 11672

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11672

gacccatgta ttctgcaaca tttccactac cattgngtcc tagggaagta gtggaaagta 60  
tttctacaag agattgttgc aatgcttcca tgccttgatt tanagcatcc tcagcctgct 120  
gggaagactg ttgtagatta caaattccca tcaactgctg atcttgtaat ggctcaaggt 180  
ggttcttgat gatctgaaac ccanaatata agaaacgagt caaaaacaaa caaattatgt 240  
acacaagtga agttaattac tatcattnta gaatgtggat tngacctaac tcgaccccaa 300  
aaattagatt ataaggtagag agttacacct cacttatatg ctctgtcttg atcttatctc 360  
ttctcaatat aggacttggg tttctttcaa tatacctctt cacacttagc accctttggg 420  
tttgatgcgt gaataaca 438

<210> 11673

<211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11673

ttgagccaat tcaaacgaca ataactnttt ttcggatggt tgattgagtc ccgtaatatata 60  
 acgagacgct cgaaattgaa tgttgaagct ctgagctaata tcaaacgaca ataactnttt 120  
 tctcggatgt ctgattgagt cccttaacat atcgagaccc tcgaaattga atgttgaatc 180  
 tctgagccaa ttcaaacgac aataactnttt tacttagatg tttgattgag tgccgtaaca 240  
 tatagagacg ctcgaaattg aatgttgaag ctctaagcca attcaaacta caataactnt 300  
 ttactcggaa gtttaattgag tt 322

<210> 11674  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11674

cgtgattcctt aattatatta aagagttaaa anaatatatg agattaataa aattagagaa 60  
 tattatgata tatatnttta gttaccatgt aggtacttaa ataaattaga agcttaagggt 120  
 agttgaacat gttgtgaatt attctgaagt taaatntgtg tgttggtggt ggttttgttt 180  
 cgttatgtac gttcattaaa aaatgagaaa attaattagt agtcttagaa taaattaaaa 240  
 aactgtgaa taaataatta ttatatctaa gttatataat acacataaat taaaacagta 300  
 cggatgatga gatgagagac atagagacat acataataaa cataacataa tttaacaaga 360  
 aatacgaga 369

<210> 11675  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11675

tcactatgaa tgacaaattc cttngnataa aggtagtgtt gccatgttnt caaagcccgt 60  
 actaaggcat acaactcctt atcataagtt gaatagttaa gggtaggacc acttaactnt 120

tcactaaaat aagcaattgg atggccttct tgcataca cagccccaat cccaacattt 180  
gaagcatcac actcaatttc aaaagatttt tgaaagtttg gcaacgcaag tatggnggca 240  
ttagttagct tttgcttaag aacattgaaa gcttcttctt gtttctctcc ccatttgann 300  
accaacattt tcttgagcac ttcattgaga ggtgctgcca atgtgctaaa atccttcaca 360  
aatcgtctat 370

<210> 11676  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11676

gcgcatatta tctcgagacg ctcaaattaa ccaacggaag ctctcgagat attcanatgg 60  
tcataacttt taactcggag gtccgattca ggcgcataat atatcgagac gctgcgaaat 120  
gaacaacgga agctctcgag aaattcacat ggtcataact tttactcgg atgtcagatc 180  
aggcgcataa tatatcgaga cgctcagaat taacaacgga agctctcgag aaatccaatg 240  
gcataacttt cactgggatg ccgttcacgc cataatacat gagacctcat attgacaacg 300  
gagctctcat aaatcaatgg catactttca ctc 333

<210> 11677  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 11677

tcaagctgtg aggacctgta tctccttggt tccttacaag aatgtctggg cttggaagtt 60  
gcaaagtcca gcaagggcga tgaaatgact caccgaaaat atgccctttg tctattagag 120  
gatactgggt tttctggctg caaaccatcc tcccttccaa tggatccaaa tttaaagctc 180  
aacatgccca gaggtgattt actgcccaat ccttcaatgt acatgcgtat acttggtcag 240  
ctcatgtacc taactatttc aaggccggat attacatttg ttgtaacaa gctaagccag 300  
tacatgcaac atctcaagac acctcatgta gatgttgcca tcatctgcta caatatatc 359

<210> 11678

<211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11678

agcttatctc ctaatgcacc tattccattc ctcccatggt catcatcacc ataaacagca 60  
 ataacctctc tccagccaaa gtagttaaca gagtctgcta ttgcagtcac ttcataaatg 120  
 tcactaaaag cagctctaataa aaagaatggg aattgaagtg aagaaagagt atggtcagtg 180  
 gctgtaaatg atagtagagg aactnggagc tcgttcgcta tatgagatat gacatgagct 240  
 gttgtagacg tctggggacc gattatagcc acagtttgtg tgccatgagc tgcaggctat 300  
 acacacaatt tatgtaacca agagaataat ctgcaaactt tgagaacttg 350

<210> 11679  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11679

agaatgaagc tctgatacca cttgttggac aagtggcctc agatatctta agaagggggg 60  
 gttgaattaa gatattacaa attatttccc canttaaaaa ttctatttaa ctttctattc 120  
 aagttataaa ttcccttaataa aatgaatntc ttaaataatta attcaaataa aacaagttga 180  
 atatgaatat aaaacaataa taaataaagg gagttaaggg aagagaaagt gcanacctca 240  
 gattatactg gttggggcac acccttgtgc ctacgtccag tccccaagca acccgcttga 300  
 gagttccact atcttgtaaa ttccttttat aagttctaaa caca 344

<210> 11680  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 11680

agcttaacaa ggctctctat ggctaagttc taattctcca aggcagcgga ttcacagggt 60  
 aaaatctact atacttgagc atggcttagg aacagacagg tgacatgctt ctctgttcat 120  
 ctacacacat caagagcata ctgtctatct tttagtctat gtggatgata tcatcatcac 180

aaacagtttt gtctatctta gtcggcagct aactttcaaa ctaaacattg ccttgtctca 240  
 taagaaactg tgtcatttgg actattgttt gggactagag atcaaataac atgcttataa 300  
 ttctatacta ttgactcata gcgattatat tcatgattta cttcacaaaa ctcatatggc 360  
 tgaagcacat tctattttct ctcccatggg tcccta 395

<210> 11681  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 11681

agcttgaagg taaactagat gccttggtta acctggtaac ctagctggcc ttgaataaaa 60  
 aatctgcaact tgttgccaca ctctgtggtt tatgtcctc tgccgaccac cacacagacc 120  
 tttgcccttc tgtgcagcaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180  
 tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240  
 tctccagcaa caggtacaat cccgggtgga agaatcatcc caaccttaga tggctcgagtc 300  
 ctccacaaca gcagcaacaa caacaacctt attttcaaaa tgctgctggc ccaagcagac 360  
 catacgttgc tccaccaatc cagcagtaac aacaacaaca gcaaccgcaa tag 413

<210> 11682  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 11682

gaacaagcta caaatggaga gagcaagaaa tgaagagcca atggttgata catggacgga 60  
 gatgaataag atcatgagga agcggatatg tccggctagt tactcaaggg acttgaaatt 120  
 caagctccaa aaactaacc aaggcaacaa ggggggtgag gagtatttca aggaaatgga 180  
 tgtgctcatg attcaagcaa atattgaaga agatgaggag gtaactatgg ctcgatttct 240  
 taatggtttg actaatgata tccgtgatat tgttgagctg caggagtttg ttgaaatgga 300  
 tgatttgctt cacaaagcaa tccaagtgga gcaacaatta aaaaggaagg gagt 354

<210> 11683  
 <211> 410  
 <212> DNA

<213> Glycine max

<400> 11683

agcttcttag tctcgactga tgaagatgaa ttcgtgggta cttcatgcac tcctctaatag 60  
acaatagcat cacttccggc actaaattgc tgggagtttg aagccatctt ctcaattaaa 120  
tttctggcctt cagaaggggt catgtctcca agggctccac cactggcaac atctatcata 180  
cttctctcca tggtactgag tccttcataa aaatattgga gaagaagggtg ctcagaaatc 240  
tggtggtgaa ggcaactggc acataatttc ttaaattctct ccagatttc atataagctc 300  
tctccactga gttgcctaatt ttttgaaata tcttttctga tggtcgtggt cttggaagta 360  
gggaaaaatt tttctaagaa atctctcttg aggtcatccc agctcgtgat 410

<210> 11684

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11684

ctgacagcca atgggtgagt ccagtttaag tggttcctaa gaagacatgc ctcacagtga 60  
ttaagaatga gaagaatgag cttatcccca caagagtga gaacagctgg cgagtctgca 120  
ttggttatag gaggtgaac caggtagacca gaaaatatca ttttcccctg ccattcattg 180  
atcaaatgct tgagcgcttg gcaagtaagt ctcattacta ttttcttgat ggtttttctg 240  
gttatttaca aattcatatt gtcctgagg atcaaganaa gaccatattc acctgttctc 300  
ttagcacttt ttcctataag aggatgccct ttggcctatg caacgccct gataccttct 360  
agtgatgtat gcttagcatt ttcagt 386

<210> 11685

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11685

tcttctaccc catttctgac agccaatggg tgagtccagt ttaagtgggt cctaagaaga 60  
catgcctcac agtgattaag aatgagaaga atgagcttat cccacaaga gtgcagaaca 120

gctggcgagt ctgcattggt tataggaggc tgaaccangt gaccagaaaa tatcattttc 180  
 ccctgccatt cattgatcaa atgcttgagc gctcggcaag taagtctcat tacctatttc 240  
 ttgatggtgt ttctggttat ttacaaattc atattgctcc tgaggatcaa gaaaagacca 300  
 tattcacctg ttcctttagc actatttctc ataagaggat gccctttggc ctatgcaacg 360  
 cccctgatac cttctagtga tgtatgc 387

<210> 11686  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 11686

agcttgtttg agaagagcga ggtttaactt aatgatatgt ctgtgttttc tttccacatc 60  
 agcattttga tgatgtgtgt gagggcaaat taccctgtga atgatcccat gggtttgaaa 120  
 aaatgagata agaggctctaa attcacctcc ccaatctgtt tgaacactct taattttggt 180  
 atcaaattgg agttcagtca tggttttaaa ttggtaaaaa acagaaaatg tttctgattt 240  
 atttttaaga gaatagatcc aagtgaactt agaataggca tcaacaaagc tgatataata 300  
 agagaaacca tttgtggcac aaatcactgt atatagttca agagagcaga tatacagttg 360  
 aaatcatggt agtctatgtg actttcacat aac 393

<210> 11687  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11687

agagagagcc ttattagaga agnttagttc tattgatctn taaanatttg ctcagntaga 60  
 agtgtttagag agaagtntag ttgaatgcaa aaggtagagg aaagaccttg ccgccaactt 120  
 cagaatcgaa gtcgtacttg tcaagagcag cagtgaagtc ttcgatggtg aatgaaacac 180  
 cttccattgg agcattgcgg catctctcgt aggcttcttc gaagagtttc ttaagcctcg 240  
 ctctctcttt gttctgcgca ttggctattg ctattgagtt cgcaatggta attgaaacgc 300  
 gcttttggga ttgttgggtc caaagagaag gtttggagaa gagagaagaa gatgagagtg 360  
 gggagcac 368



<210> 11688  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 11688

cattttaata agtgtagaa caaaaatgt tcttataagt cacatgtata gtaatgttaa 60  
 caaacttaac atacatatta gattgtaatt acatgatgat ataaaattat tttatactat 120  
 taatatataa cctatTTTTT caaataaaat tatcatactt taatgtaatc aaatgattat 180  
 tatgatgaga aaactaatat aaaataaccc tctttaatat gaaattaacc atttcactta 240  
 caagaattga tattataata atatattatt atataacagt gaaataaaaat acaatattga 300  
 aaaggtgata acaaaaaggt gtattcttaa atttggttaa aaaatataaa gtaaatcata 360  
 ttcataaatt aattttaggt ctagacgatc ccatgatcac t 401

<210> 11689  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11689

ttgaactcct ccaacccttg acctgacttc ttggaaagcc ttttcacagc aaactcttgg 60  
 ccattccttca gtcttccctg ctaaccaaatt tgtagaaat atttcogagtt atgaaaacaa 120  
 acatctatag ttggttttcc atatcacctt gtacacaggt gcaaagccac cttcttccaa 180  
 tatgttactc tcagtgaagt tntcagtggc tctttctatg atgggggaaat caaatgtgga 240  
 caaatcaatg ccttcttttc tcagttttcg ttgaaatgg ttcctataaa ttattcttgc 300  
 tacctctgat aggtttgaag ataacaatag agaactacta tgacactcac aatgtgcacg 360  
 tatgattcat aaacctacta tcatatatta gatgttatca atatccaaga caaaaattac 420  
 ctggctttct gagtat 436

<210> 11690  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11690

gcttgataac ctagccctat gcaaattggag ctttaggtga tcatgatttc catgtattat 60  
ggatttcagg ttatatcaaa tggatgtgaa gagcactttt ctcaatggat acattgaaga 120  
agagatatat gtagaccaac ctctatgttt tgtagacttc anacatctaa tcatgtgtac 180  
aagctgaaaa tggctcggta ttgtttaaaa caagaaccta catcttggtt tgaaagaatg 240  
agcagatttc taattaagaa atcatttgta agagggtcaag ttgacacaac atttgttatc 300  
aagagatcaa ataatgagtg gttgattgtg catatttatg ttgaagacat aatcttt 357

<210> 11691  
<211> 490  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11691

tccatcaaga tgagtggagg gagagggaga gaaatagcat gatattatat gcctcaaagt 60  
aggtctgaac attgaagcat aattctcaaa tgatcaaagt tgaaaataat acacacatat 120  
gatctctatt tatagcctaa gtgtcacaca aaattagagg gaaatttgaa tttctattca 180  
aatnntactt gaattggaaa ttgaatttgt ggagccaaaa tttcactaat tatgattatt 240  
aaatttttagc tatgattcag cccacaaatt caagatcaag tccaagattc tccactaagt 300  
gtgcttaggt gtcatgaggc atgtatagca tgaaggacat gcacaaagtg tgactatatg 360  
atgtggcaat ggtgtgtagc aagcaaattgc tcacctnctc ctctaaaata taattggatt 420  
gngcttcttc caattaaaat aaattaattc ccaacacaca tcanatttca cttaatgatg 480  
cgaattataa 490

<210> 11692  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 11692

agcttgcttt gaaaatttcc ctcaccctat gccttacaaa ctacaatggg tgagtgagaa 60  
ttgggagtta gttgtaaata gacaagtttt gatatgcttc tccattggaa aatatgttga 120

tgagatattg tttgatgttg tccctatgga agctagccat cttttacttg gaagaccttg 180  
gcaatatgat agggatgttg tccataatgg ggtcacaaac aatttttcat ttgtacataa 240  
agggcaaaag gttagcctta cacctttgtc tccaagtga gttgtaagga tcaaataaaa 300  
atgatagtga aaagagaaca agagagaaaa gaagagaaaa acaaaattga tgaaaagaga 360  
tagaaacatg aaataagcga aaagaaagaa aataatggag ataaagaa 408

<210> 11693  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11693

gatgatgcac tccatgagag ggtggatcaa atggagaaca gagatcataa tgaagaataa 60  
agaaggagaa gagggaatga tgggtgtcct agacaaaact gaattgatgg tattaaactc 120  
aacattcctc cctttaaagg aaagaatgat ccagaggcct acttggagtg ggagatgaaa 180  
atagagcatg tnttctcatg caacaactat gaggaggacc aaaatgtgaa gcttgccgcc 240  
acagagtttt ctgactatgc tcatgtgtgg tggaacaagc tacaaaaaga gagagcaaga 300  
aacgaagagc caattgttga tacatgggag gagatgaaaa ggatcatgat gaagcgggat 360  
gtg 363

<210> 11694  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 11694

agctgtgagg attttcaaac gacaatatct ttttactcgg atgtctgatt aagtcccgta 60  
atatatcgag acgctctaaa ttgaatgttg aagctctgac caaattcaaa cgacgataaa 120  
tttttactcg gatgtctgat tgagtcctgt tatatatcga gactctcgaa attaaatggt 180  
gaagctctaa gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagccccg 240  
taatacatcg agacgctcga aatttattgt tgaagctctc agcatattca aacgacaata 300  
acattttact cggatgtctg attgagctcc gtattacatc gagacgctca aaattgaatg 360  
ttgatgctct cagcaaattc aaacgacaat a 391

<210> 11695  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11695  
  
 aaacagaaga acactaccaa aagacctgga agaaacagca atgtgacacc ccccaaaaca 60  
 attgctatct ttgctccctc gctcattttc ctgtatgata gaacactagg tctctctgag 120  
 actgttagtg gagacaatgt ggtattaggg gaaactgaag aacattgttt caaagggtgct 180  
 ccacataaca tcaaattacc tctaaatgag gaggcacgga acttatggag acctgaagga 240  
 atagagccat tcaagtagtt gaagctcaaa tccaaatcct taaggctagg aagggttaaca 300  
 t 301

<210> 11696  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11696  
  
 ctaagctntc attactcctc atgcttctca ccatgtctaa taaggtttga tttcttcggt 60  
 ctgccacacc attctgatct ggagaaccaa gcatagtgtg ttgtgcaaca atcccatggt 120  
 cttgaagaaa tgtcgcaaat gaacctggtg cttgtgcatt ctctgtgtat ctacaatagt 180  
 acttcccacc tctatctgat ctacgatct taatttggtt tccacactgt ttctcaactt 240  
 cagcccttaa aactttaag gcatctaaag cttctgatgt aatcctatcc cac 293

<210> 11697  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11697  
  
 gagctttacc gagtgtctga aagcctcatc tatggttgag aaccactccc tatctccaca 60  
 catgtgattg ctagcaccgg agtcaagaaa ccaagtctct tcttggtgca agttgtcagc 120  
 ttcgacaaga gacatgaaca gcatctcttg ttcttcatga atctcagcat aggtagccct 180

ctccttccat cttgcgcatt cctattggaa gcgtcctaatt ttgtggcact taaagcactc 240  
 cactgtgggt ttgattgaga ctgccttctt ctgcctctgc ctgcaccccg accaaagcct 300  
 ctacctctgc ctgtacctcc attctgttct tcatgcgaga ctttcaatgc ttgctcatac 360  
 cttgtgtacc accatgagaa tacattcttt gttcatgaac caaaaggct 409

<210> 11698  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 11698

tgaacaacgg aagctctcga gaaaatcgat ttggctttta ttctcacaca gatgtccgat 60  
 tctgggagat aatataatcga gacgcacgat attgtacaac ggaagctctc gagagatttg 120  
 aatggtcata acatctcact cggatgtgag atccggggac atatattatc gagacgctcg 180  
 atattgaaca acccgagctc tcgacaaatt ataatggctg taacttttta cacgaatggt 240  
 cgagttcggg acataactta tctagacgct cgaaattgaa caccgaagc tctcgacaaa 300  
 ttggaatggt catacttctc aca 323

<210> 11699  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11699

agcttaataa atctatatat ggtttagatc acgcctccca tcagtgggtac cttaagtttc 60  
 atgggataat ttcttcattt gggtttgatg aaaaccccat ggatcaatgc atataccaca 120  
 cggatcaatgg gagtaaaata tgttttcgta ttttatatgt agatgatatt ttacttgcag 180  
 ccaatgatcg gagtttgcta catgaagtga aacaatttct ctctaacaan ttgacatga 240  
 aggatatggg tgatatctta tgtcatcgac attagagattc atagagatag accttgaggt 300  
 attttgggtc tatcatagga agcctatatt aacaaaattc t 341

<210> 11700  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 11700

agcttcattc ctttttcact catgtgtcca agtctttgat gccacaaggt taaattattg 60  
acagcctgaa taactgctat catatcctca tctgcaatta tgtaaagaga tcctcgcttc 120  
tttccacgag ccataacgag attgcctttt gttaccttcc aagttccatc tccaaaagtg 180  
gtgtaatgcc cctcatcatc caactgccct atagatatta gatttctctt taagacagga 240  
atatgtctga cattgtgcaa tgtccatagg aatccattgg aggtcttaat gtcaatatca 300  
cctcttccaa caatgtcaag agattttcca tctgcaaggt aaactttccc aaatcttcca 360  
gaagtatagt tagacaataa atctttagag ggagtggtgt gaaacgacc 409

<210> 11701

<211> 387

<212> DNA

<213> Glycine max

<400> 11701

gcttggagtt tcaagtgcc aatcgtcttc ttcttttgtc cagtcttctt ctggcttcaa 60  
ttcattagtg ggctttcctt ctgtgtccag catcttctga tgttcccagc ctttgatgat 120  
agctttccag gttctgctat ccaactgattt gaggaaggcc accatccttg ctttccagta 180  
ttcatagttg gttccatcca gaattgggtg tctgttcaact ggtcctcctt ctttctccat 240  
gttcatcaga atttatctcc ctagatctca ctcactgagt tcgagtgcgc gctctgatac 300  
caatagaaat tctgatacca atgccagatg tcgtacagga tgtcaogaca tcacgcttca 360  
gaacatgcat attatgtttg agagtat 387

<210> 11702

<211> 338

<212> DNA

<213> Glycine max

<400> 11702

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
gatatcttaa gaaggggggg ggttgaatta agatattcca tactctttct tctaattaaa 120  
aatctatctt actttttact taagtattga attcccttaa tgacaatctt cttaaattatt 180  
aattcatatg aaccaacttg aatatgaata taacgcaata ataaataaag gagattaacg 240

gaagagaaca tgcaaactca gttttatact gcttccgcca cacccttggtg cctacgtcca 300  
gtccccaagc aaccgcgttg agagttccac taacttgt 338

<210> 11703  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 11703

agcttttaggg catatgaaa acttatttat tgtcttggtt ggttgtaaga aaggaaaggg 60  
aagaagtga attgaattag agagagaaaa taaaagtagg ataaatatac aagaatataa 120  
tgaagtaacg gaaaatactt aaataaaatt ttttggtaaa aaaaaaagga agagaaatta 180  
atattaaaga aatgacttat ttattaggat tagtatttac tatttgctat tagtattggt 240  
ttaaataatc ttagtatata tagaattcat tttatgtaca agacatttgt ttgttccaat 300  
acctacacaa tagttatacc ctatcatatt aaatttatcc attgtcagcc taccattaga 360  
ttagactac catattaaag ttataagttc ttaaataataa cttactaata ct 412

<210> 11704  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 11704

agcttaaaaa aaacaaaact ctgacttagt agtgcgtatg gtatctttac acacaattaa 60  
ttcagagaaa tgaagcagct ccaagacctt accactagaa tagaaataat caggcagctg 120  
gaaagccttt gcaagccaat ccagaacaat cgtctcaagt tcagttgcag caggagaagt 180  
tatccagctg aaaccacga tgtaagacc cgcactgagc atctctccta gaaaccacgc 240  
aatgctactg ttggaaggaa aatacgcaaa ataatttggg ctttgccagt gcgtcacccc 300  
tggcagtatt ttttctgca catctacaat atggcaaaca ctatcaagct agcattgctc 360  
aaacaactct acaaactaca agataacgaa actgcaacta ctaca 405

<210> 11705  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 11705

agcttggatt tccttttagt agggaatcta tccttcctaa gatggagcca aaccagtc 60  
ccctcattaa gaactagctc tttcttccct ctattgcctt tagttgaata cacctttggt 120  
tggttctcta tttggttctt aaccctctca tgcaacttct ttacaaactc tgacctagat 180  
tcccccttctt tatgtatata agaagtgtcc agtgggaggg gaatgaggtc taatgggtgt 240  
aggggattaa acccatagac aacctctaaa ggggactgct tcgtgggttct atgaaccccc 300  
tgttgtagga aaattctaca tgagaaagat actcatccca agacttatgg ttgcctttca 360  
gaagagccct taaaagggtg cataaagacc tatte 395

<210> 11706

<211> 380

<212> DNA

<213> Glycine max

<400> 11706

agcttgcaaa caagctgctt gttgtaatct tcaaagcccg gtgggttgagt catgaagact 60  
tcctcctgaa ggatgccatt gaggaaggca ttattcacat caagctgctg gagtttccac 120  
ttatgagtaa tagcaagagt cagaagaatt ctgacagtaa caagcttgat tatagggtgag 180  
aaggtctcat tgtaatcata cccaagtctt tgatgaaagc ctttgacaac aaacctgact 240  
ttatatattgt taactggacg atcagggttt tcattgacct tgaagaccca ttgcaacca 300  
atgggagacc tgtatggagg taaaaagtgg catgaagctt ttcccaaaga tgccatgtcg 360  
ttttgtcttc tactatatga 380

<210> 11707

<211> 374

<212> DNA

<213> Glycine max

<400> 11707

gtctggcaac ctagtaactc agcttgtcat ttatcacaaa tctgcatctg cacctgttgc 60  
aagagtctgt ggtctatggt cttctgcaga tcaccatata gatctttgtc tttctttgca 120  
gctatctgga gtcaatgaac aacctgaagt ctatgttgca aacatttata atagaccccc 180  
tcagcaacaa aaccaacaac aacagactaa ttatgatctt tcaagcgaca gatacaatcc 240



aagttggagg aatcatccaa atctgagatg ggcaagtcct ccacaacaac aacagctggt 300  
 cccttctttc cagaatggtg ctggtccaag aaagccatat gttgctctc caatgcagca 360  
 acaacaaaga caac 374

<210> 11708  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11708

agctttacta tgcaagggtt attctatgaa aattccttca tctaacttag catcaaactt 60  
 tcctaagttt tcttttccat tgtttaatac aaagcatttg caaccaaaaa catgaagggtg 120  
 tgaaatgtta ggttttctac catgaaacaa ttcatatgga gttttcttta aaatgggtct 180  
 tattaagacc ctattcatga tatagcatgc aatattaacg gcttcagccc aaaatttttt 240  
 tgaaagagga gtgtcattta ataaggttct agcaatttct tccaaagatc tatttttctt 300  
 ttcaacaact ccattttgtt gaggggttct aggtgcacaa aagttatgtt caatgccatg 360  
 tttatcacan aataattcaa attctttatt ttcaaattca ccccatga 409

<210> 11709  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11709

aacatcagac cacttccatg gtgttgatc tacttcacaa ggacttgatg gggcctatgc 60  
 atgttgaaag ccttggagga aagaggtagc cctatgtcgg tgtggatgag ccctccatac 120  
 ttacctgtgt caacttatat caaagaaaca tccgactccc ttgaaggatt caaagagttg 180  
 agtctaagac ttcaaagaca aaaagactgt gttatcaaga gaatctggag tgacctggc 240  
 agagagtttg aaaacaacaa gtttactgaa ttctgcacat ctgaaggcat cactcatgag 300  
 ttctctgtca ccattacacc acaacaaaat ggcatagtng aaaggaaaaa caggac 356

<210> 11710  
 <211> 359

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11710

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tgcagcacgc ttagttatca caccttcttt ccctaggtct tcttaaagta gtacaagttg 120  
gtaattcttc acatcattac tccaacagtt cattgnggct tcaatgggca cttcaaactc 180  
taagaatccc ttaccaagct gtggtcaaaa tctgttcctt ccaaagcatg ttgtgttatt 240  
gctgagtttc ttcctggggg aacattgaaa caatacttgt ctaataatag gcagaacaaa 300  
ctttcatata aggttgatg tcagctggct ttatacctct ctagaaggtg agtcacatt 359

<210> 11711  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11711

tgagtcaacg gagcggctat ctgagcatta attttgacga aacggcggta gaacccggtt 60  
aggccaaga aaccgcgtag ggccttagtt gttgtcggag gcggccagtg gagcatagct 120  
tgtatcttat aagaatcggg ctgcacacct cgacgtgaaa caaatggcc caagtattca 180  
atccttcgtt gaccaaagat acacttgaa gctntcaaac ggaaatcagc ttgttgcaga 240  
gtacgcagga cgcaatccaa atggttgacg tgggattgga ggtcactgct atatactaaa 300  
atgtcat 307

<210> 11712  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11712

atattctcaa cagtcacatg tttgtacttg gttcttgaat ggccatcaaa agcttatata 60  
tatgtgactt gagacacgaa tttgctaaga gattntcaga aaaaaagggt cttatcctct 120  
taaaaagcaa aatcgttnta tcctcttaca aattccttgg ctaaaacact tgtgattcag 180

taaggaatta tntgagtgtc caaattgttc aatctatctc tttcaagaga gattttcttct 240  
 tttcttcttc ttcattctga anagggatta agagaccgag ggtctctttg tgtgaaagaa 300  
 ttctaaacac 310

<210> 11713  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11713

cagctcgaga ataagcttct tcgctgngaa gaatgngatc tgcattgcatt atatacacat 60  
 aagtctcatt cttcaacgcc agaaacacgt aaccacgctg tcttttgcatt gggccactt 120  
 gtttctaacg gtggaggtga acatgataat gatgatagtg gttgcatgag ttggctcgac 180  
 tcgcaaccga gtcgaaccgt tgtgttttta agccttgga gctacggaag gttctcgaag 240  
 agtcagataa gggagatagc gttaggggta gagaggagtg gacaaagggtt tttgtggggtt 300  
 atgaggaacc catatgagaa gaagtgaa 328

<210> 11714  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11714

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 agtttaggtg aaaattacta tggctntgta atagtagatg attactcaat gttcacatgg 120  
 gctntatattt tgaaaaccaa aatgaagctt tngatgcttt tcgcanactt gccagatga 180  
 ttcanaatga aaaagggtctt aacattgttt cacttagaag tgatcataga ggtgaatttc 240  
 anaatgagtt ctttgaaatc tttttgaaga aatgtaatta ccataatatt tctgaccaa 300  
 acacctaaca gaatgggttt ggaaggaaaa taat 334

<210> 11715  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11715

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aaggtagngt tgccatgttt tcaaagcccg tactaaggca tacaactcct tatcataagt 120  
tgaatagtta agggtaggac cacttaactt ttcactaaaa taagcaattg gatggccttc 180  
ttgcatcaac acagcccca tcccaacatt tgaagcatca cactcaattt caaaagattn 240  
ttgaaagttt ggcaacgcaa gtatgggtgc attagttagc tnttccttaa gaacattgaa 300  
agcttcttct tgtttctctc cccatttgaa accagcattt ntcttgagca cttcattgag 360  
agggtgctgcc aatgtgctaa aatccttcac anattgtcta taanaactng ctaagccatg 420  
anaactcctc acctcgggtca cggacttang tgtangccat tcttgaatag cccctaacct 480  
tctctcatca actngcactc cttttgaact cacaac 516

<210> 11716  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11716

gctctcatat gttatgcgtc tgaatcggac atgcgagcga canattttga tcatttttat 60  
ttgccgagag ccttcggtga tcaatatcta gcatatcgat acgctatgtg cctgaatcgg 120  
acatgcgagt gaaaagctat gaccattaga atttctcgag agcttacggt gtacaatnta 180  
tagcgtgtcg atacgctatg cgcctgcac gaacatgcga gtgagaagat atgagcatta 240  
tactttctcg agagagtgcc gctgggtcaat tcttagcgtc tcgatatgct atgtgcccg 300  
atcggacatg cgcgatganaa gtatgaccat gtaaatntct cgagagcacc tgatgatcat 360  
gtctagcgtc tcataactcta tgcgcctgaa tcg 393

<210> 11717  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11717

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gaattttctca agaacttccg ttgttcaatt tcgagcttct tgacatatta tgtgcccga 120  
 tcggatatcc gtgtgaanaa gtatgacact ctgaattcgc gatagttccg atgttaattc 180  
 gagcgttcga tatatatacc ctgatcggca tccggtgaaa gtatgacctt gaattcacag 240  
 agcttcgtgt gattacgagc gtgtcattgt gatccctgat cgactccggt gaaagta 297

<210> 11718  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11718

aaccattata tttatggctt ttgattgtga tgaatgataa tataaataag ttgagtcttt 60  
 gtttaccaat ggttaacaag ttggtgcacc ccagcatcat tggagcaaac atgggccttg 120  
 gcaagctgcc acatccaatt agtagtagca tcaacaggag gtgtaaccac gcgctntgac 180  
 cggaattag gtccagcatg agggaggcta agttctatag ccacaggctt gagagtgcc 240  
 cgtggtgtca agaaaaagat ggtgcgtgtg gcatatgatt tcctaccatc aagggcattg 300  
 atcccttcta agaaaggtag atatatatca tgataatcaa tcataaacag c 351

<210> 11719  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11719

agtgagctgc ccagtgagta taatgttagt tccaccttca atgtctctga tttatctctt 60  
 tttgatgcag atggagaatc cgatttgagg acaaatcctt ctcaagaggg agagaatgat 120  
 gaggacatgt tcaagaacaa nggcaaggat ccacttgaag gacttggagg acctatgaca 180  
 agggctagag caaggaaagc caaggaagct cttcaacaag tgttgatccat actatttgaa 240  
 tacaagccca agtttcaagg agaaaagtcc aagggtgtga gttgtatcat ggcccanatg 300  
 gaggagaact aaatgacacc actctgtctc aat 333

<210> 11720  
 <211> 288

<212> DNA  
<213> Glycine max

<400> 11720

gacaagaagt ttaatgagtg tatgagcaac tcaggattca acagatgtga catggaccat 60  
tgctgctatg ttaagaaata tactaatagt tatgttatcc ttgtcgtgta tgttgatgac 120  
atgttgattg caggatctag tatggcagaa attaacaagt tgaagcagca gttggcagaa 180  
aactttgaaa tgaaggatct tgggtccagct aaacaaatcc ttggtatgag aattcttaga 240  
aacagatcag aaggaatddd gaagctgtct caggagaaat atatacac 288

<210> 11721  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11721

ctttcttgat gataatggtt actagactta ctctttgctc tatctgtccc aagtgagatt 60  
cgaatacgag aattccatga gagtcttggt ttgaagtcac catctgagtg gagtgcacac 120  
tacaatgatt actgtagtac tcatagatnt agaagccttt gatcatgctc tgaacaatat 180  
ccaacaagct caacaacatt ngcatgccgt attctgtcaa tattatntat caattcaata 240  
aattcatcat ccttctggtg tgcagaggct ctcttgccca acttgtctgc ataacaaata 300  
ccatcttcaa taactaaagc taaaaataa ctatatattc ttcanaatca aatntctgat 360  
gtgatcaaga tcagtaaata acaacaatag aagaaacttc anactaggaa taaacacttc 420  
aatntctca atagtcacag 440

<210> 11722  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11722

tttttcaggg tgtgtttact ggtaaagtgt ggacaagttt agaccatggg gtagtggttg 60  
ttggatatgg ctctgaaaat ggtgtggatt actggctggg gaggaattca tggngcactg 120  
gatggngtga ggatggctat ttcaagatgc agcgcaacgt gagaacctcc acgggcaagt 180

gtggaattac aatggaggcc tcctaccctg tgaagaatgg tctaaactct gcagttccta 240  
attcagttta tgaaagcact ganggtgtat gtagcagtgc ttgatataac cttcatcgnt 300  
atztatgacc ttcgaatttg gaaagaggaa cacgtgctga agtngcaaga aagtgatgtt 360  
tctgtatatac tt 372

<210> 11723  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11723

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gactcggtaa tggatgttac cttangttgt cattctctgc ttaaaccatct caataactcta 120  
tttatgtgat cttcanttgg aanaaatatc cctaaagatg caagatgaat tattatatgt 180  
gtaaacctct cttgcatgtc ttgtatactt tcatttgaat tcattctaaa taattcatac 240  
tcatgagtta aagtatntat cctagatctt cttacatttg ttgtgcctc atgtgttact 300  
tgtaggggtat cccacatttc ttttgcactn ttataatttg ataccctana gtacttatcc 360  
attcctaagg cagaatgtaa tatatnnttt agctttaagt tgtatggact aatctctttc 420  
ttcttcactc attcttc 437

<210> 11724  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11724

tgaatatgat gtagaagaaa gtgaatgtga accttttacc cctttgaaag acttgtattt 60  
aaaaatgttt taaaataactt ttaattaata tataaagtat tattccttta ttagtatata 120  
tgtgaggggc tgagagtgtc acaataacaa gggagctatt actaagaatt aataaaggac 180  
cacaaaatnt gaatgataaa caatacagca tgtttaaaaa atttaataata ctattattat 240  
attcttatct aatatttaag aatattacta taatctacac ccatgcatta agtataaagt 300  
aagtttatat tattattcac tcatatatca tcattnaata taattttaag ataaatatta 360

gtagtattat agatgaataa ataatattga atgaagttta aaattgatta cactgtatta 420  
tataacttata ttttattaat acaaacatac tttta 454

<210> 11725  
<211> 271  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11725

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ttagggttat gtaatgcact tgccacattt cagaggtgca tgttggccat tntttagat 120  
atggtggaga aaattatcaa cgtattcatg gatgagttct tgatanttgg gaaagtgtca 180  
tttcatgggt cgagaaggca tagtcttggg ccacaaactn tcagcccgag gaattgaggt 240  
agacctggcc aagaatgatg tcattgagaa a 271

<210> 11726  
<211> 299  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11726

atttttatta aagatctttg aatggtgttaa aanattatga ctatgagtgt aagtttttgg 60  
tacatgtcaa ttcattagtc tttgagttag aaatttattg atttccaccc tgtgcgaact 120  
cagcatttgt tataaaatgt ttaaaattca aagagaaagc atctgttttt attttttatt 180  
aaatttgctt cacaaccctt tgcaaactca gcaggttgca aaccaanatg cattcatgtg 240  
atatagtgca atccaacaac aacaacatcc cgtaaagttc aaaaagctag gcacagtca 299

<210> 11727  
<211> 293  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11727

gtctcggca agctcatcgt cgctgctctt cgtaagggaa tgtacatgtg gctncaactn 60



gattctcttc cttttccttc cttccaattc ggtcctctct ctctccttaa accctagcta 120  
 gcttctctgt tntctctttc tcttttaact ccaaatatgc aacttatgag tttctacttc 180  
 tatctgtctc angtatggct ggtgctatat acattaaagg agctgcagta acaaactata 240  
 aaaggtgagg catattatgt gctatgaata actaatacta tctattatac tga 293

<210> 11728  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11728

gcttctgtgg gacatcttga cttgctntcc aatctgacat tcacccatata ttctgccttc 60  
 ttctattttc agattgggaa tgctctaac agcacctatg tcaatgatnt tcttcatgcc 120  
 tcttaagtgc agatgtccta atctgtgatg ccataatttg acttcatctt ctttggagaa 180  
 tagacatgtg gaggagtaac tggtttcttg aggtgtccat aggtagcagt tgtcctttga 240  
 tctgctgccc ttcattagaa cttcactc 268

<210> 11729  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11729

gtgtggtggt cggcagagga gcataaacca cagagtctgg caacaagtgc aaatttttga 60  
 ttcatggcca gttgagttac caggttaacc aaggcatcta gtttaccttt aagcttctta 120  
 gtctcacctg atgaagatga attcgtggct actttatgca ctgctctaata gacaatagca 180  
 tcaactcctgg cactaaattg ctggtagttt gaagccatct tctcaattaa atttctggct 240  
 tcagcagggg tcatgtctcc aagagctcca ccaactggcag catctatcat actcctctcc 300  
 atgttattga gtccttcata aaaatattgg aggagaagct gctcanaaat ctagtgggtga 360  
 gggcaactgg cacatagttt cttatatctc ttccagtatt catacaagct ctctccactg 420

<210> 11730  
 <211> 489  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11730

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tcttatttgt atattattta tatttttaa ttaattaatg ttgtacgtaa cgtaaaaaata 120  
attatgaaac acacttaagt gaacctgttn tatcatctat aataagggtt tggtatctca 180  
aaccatgata gcanaatgag gaagacatac acctacggcc aattgactct aaacctcatg 240  
aaagactata ccatatataa aagagaggat aaagattcat ctgcttcatg ttgtttatnt 300  
tttattcttc attnttaatt atgataataa taatgagggt agttcatatt ttcaataaac 360  
attacaatgt ttgagacaa gaaatacaca atttcatca atattatatg ttattgataa 420  
tataaacata aatgtattct caccttctaa cttacaaatg ttattaatgt ggggtttatat 480  
gaactctgc 489

<210> 11731

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11731

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attgaatgtt gaagctctga gctaattcaa acgacaataa ctntntactc ggatgtctga 120  
ttgagtcctg tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca 180  
aacgacaata actttttaca cggatgtctg attgagtccc gtcatatatc gagacgctcg 240  
aaattgaatg ttgaatctct gagccaattc aaacgacaat aactntntac tcggatgtct 300  
gattgagtc cgtaatatat cgagacgctc agaaatgaat gttgaagctc tgaggaaatt 360  
caaacgacaa taactntnta ctcgatgtc tggatgagtc ctgtcatata tcgagacgct 420  
cganattgaa tg 432

<210> 11732

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 11732

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 aaaagttggt gttgtttgaa ttagctcaga gcttcaacat tcaattntga gcgtctcgat 120  
 gtatgacggg actcaatcat acatccgagt aaaaagttat tgctgtttga atttgctcag 180  
 agcttccaca ttttaattatg agcgtctcga tatattacga gactctatca gacatctgag 240  
 taaaaccggt attgccgttc gaatttgctc agagggtcaa cattcaattt cgagcgtctt 300  
 gatatatgac tggactcaat cagacattcg agtgataaag tattggcgtt t 351

<210> 11733  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11733

atgctgcana catctacaac agaacaatta tgacctctct agcatcaggt acaatcccgg 60  
 gtggaggaat catcccaacc ttagatgggtc gaatccttca caacaacagc aacaacaacc 120  
 ttattttcaa aatgctgttg gcccaagcag accatgcgtt cctccactaa tctagcagca 180  
 acaacagcaa cagcaacagc ccaaaaaata acaaatagtt gaggccctc cgcaaccttc 240  
 ccttgaagaa cttgtgagga aaatggctat gcaaaacatg cagtntcaac aagagactag 300  
 agcctccatt cagagcttaa ccaatcagat ggaacaattg gctacacagt taaatcaaca 360  
 acagtcccag aattctgaca gattaccttc tcaatctatc cagaatccca naaatgtgag 420  
 tgacatttca ttgaggtcgg gaaaatagtg tcaaggacct caaccagtag catcttcttc 480  
 atccacaaat gaacctgccc aacctcactc tac 513

<210> 11734  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11734

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 cgcagctntg gtaggacaaa gtgggagtg gaaatccacg ggtgttagtt tgatagagag 120

aatttatgat ccacagtctg gtgcagtgct tattgatggt atcaacctca gagaatttca 180  
 actgatatgg atcagacaga aaattggcct agtcagccag gaaccagttc tctttacttg 240  
 tagcattaaa gagaatattg cctatggcaa ggatggtgca actgatgaag aaatc 295

<210> 11735  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11735

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 attgaataat ggaagctatt gagcaattcc aatggtcata actcttaact cggaagtcg 120  
 attgaggcac ataatatatt gagacgctcg aaatggaaca acggaagctc tcgagaaatn 180  
 caaatggtca taacttttaa ctcggaggtc ggatagagac gcataatata tcgagacgct 240  
 cgaaaatgaa caatggaagc tc 262

<210> 11736  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11736

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 gttagaatct gctcagagct tctgttctga atnntgagag tctcgatata ctacggaaca 120  
 caatcggaaca tctcagtaaa aagttatggt cgtttggaat tgctcagagc ttctgttctt 180  
 aattacgaga gtctcganta tatacgggat tcattcggac atccaagtaa aaagttattg 240  
 ccgtnntgaa ttgctcaaag cattcgttgt caattacgag cgtctagata tattacggga 300  
 ttcattcggga catccgagta aaaagttatt ggtcttttat tttgctcaga gcttctgttt 360  
 tcaatttcga gcatcttgat atattacagg actcaatcgg acatccgagt canaagttat 420  
 tgtcgtttga atatgctatg agctntcggg ttccattacg agcatctcaa tatgctacgg 480  
 gacacaattg gaca 494

<210> 11737  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11737

gacaatgctt acaaagtaga gctgtccggt gagtataatg ttagttccac cttcaatgtc 60  
 tttgatttac ctctttctga tgcacatgta gaatccgatt tgaggacaaa ttctttctcaa 120  
 gagggagaga atgatgagga catgaccaag agcattggca aggatccact tgaaggactc 180  
 ggaggaccta tgacangggc tagagcacgg aaagccaagg aagctcttca acaagtgtcg 240  
 tccatactat gtgaata 257

<210> 11738  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11738

aaagcattca agtgtacacc agaggcagag acaacatttg ttcaattgca gaaagtcattg 60  
 acttcagctc cagtgttagc tcttcctaatt ttccagctgc ccttcattct ggaaactaat 120  
 gcttccgaca ctagtattgg agcagtatta catcagaatg gccatccaat agcataattt 180  
 tccaagaaac ttgcacctag agtgcanaag aaaatctgac taattagaga gatgttagca 240  
 attgttgaag ctatagctaa gttcagacac tacttgctgg gacacanaat tattatcaaa 300  
 actgataaaa naagctngag aatcattgat ggaacaaccc tacagacacc tgaacaacag 360  
 cagtggttac acag 374

<210> 11739  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 11739

cccaactggc cttgaatcag aaaattgtac ctgtcgcaag gggttgtggt ttgtgctcct 60  
 ctgctgacca ccatacagac ctttgccctt ccatgcagca acctggagca attgagcaac 120  
 ctgaagctta tgctgcaaat atttacaata gacctcctca acctcagcag caaaatcaac 180

cacagcagag caattatgac ctctccagca acagatacaa tcctggatgg aggaatcacc 240  
 ctaacctcag atggtccagc cctcagcaac aacaacagca gcctgctcat tccttccaaa 300  
 atgctgctgg cccaagcaga ccatacatte ctccaccaat ccaacaacag caacaacccc 360  
 agaaatagcc aacag 375

<210> 11740  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11740

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 catcatcctt gaggctgctc atatctctgg aaaagtactc caaacaaagt acaaacagat 120  
 caggggagag aggatcccct tgtctaagac ctcgctgccc tttgaagtgg ccataaatgg 180  
 atccattgac tgtcacacta aagaaagtga aagaaacaca ttccatgata caagtacaga 240  
 actgtgcggn gaagccaatg gacttaagca tccaatccaa gaattcccag gaaatggaat 300  
 cataagcttt atgcaagtca attt 324

<210> 11741  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11741

agatcatgca tacctttcta tggctaatat accattatnt tcacaattat cataacttcaa 60  
 gtagccaact ccctagaatt tataagagat cagtccgtga acaacagtga ctcttctggt 120  
 cacagaacaa taaatcaaaa tacataccac tattttaatc aaaagactta taagagaagt 180  
 tgthttcaacc aaatcaaatc aataacaatt cacaactctt ctacaacaga atgaaaatga 240  
 ataaataaaa gaattttata tatcatgctg tgctntcagc ctcttcttat cccaacatat 300  
 taatagagga naaccacagaa acat 324

<210> 11742  
 <211> 470

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11742

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agcttaagct ccttcaactg cacaaggctc ttaatatattg aagagtattc ttgtggaacc 60
ttcacccgac gaagacactg gcaaaaactt atcttctcct tcttggacaa agtgtggcag 120
gctgtgggca agtaaattat cttcccatca gaccttggat gcaactgtgc tcttataccc 180
atatcagcta gatcttgacg ggtattcaag ccatcattcg tcttgccttg aatgttaagg 240
agcgtcccaa tcacactgtc acaaacantt ttctccacat gcataacatc aatacaatgt 300
ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt cttccatatg 360
caactctgac tnttatcctt cttttgggtc tgtccaaata cagtgttcag gtgttgaacc 420
cgctgatata cctgctcacc agtgaacatt atcggcgcaa tatcatgctc 470
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<210> 11743  
<211> 473  
<212> DNA  
<213> Glycine max

<400> 11743

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agcttcctta agaagattac taaagattct agagcttata tacacatacc tctctaatag 60
ctaagctcac ctccttgaga tgagaagcta gagcttagct acacaccccc tatgatagg 120
gagctcacc ccatgacaaa aaacatgaga ataataaaaa aaaagtgtt attacaaaga 180
caactcataa tgccccgaaa tacaaggcta aaaccctata ctactagaat ggccaaaata 240
caaggtctag acgaaggaaa aacctattct aatatttaca aagataagcg ggctcact 300
tagcccatgg gctcgaaatc taccctaagg ctcatgagaa cctaggggc tttccttgg 360
tctctagccc aatctacttg gagtcttcta gccaatgcta ttgctgggta ggatagcatc 420
attcctcca ccttggaag gaattgacct cacatcccga gggtcttcat act 473
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<210> 11744  
<211> 517  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11744

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ctcatctcct tgagatgaaa agctagagct tagctacaca cccnctataa tagctaagct 120  
caccncatg acaaaanaaaa aacatganaa tacaaaaaaa atagtcctta ctacaaagac 180  
tactcaaaat gccccgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac 240  
aaggcacaaa cgaaggaaaa acctattcta atatttacia agataagcgg gctcatactt 300  
agcccatgga ctcaaaatat accctaaggc tcatgagaac cctanggcct tcccttggat 360  
ctctagccca atctacttgg agtcttctac ccaatgcctt tgcgggatag gattgcatca 420  
ttccctccac cttggaagg atttgacctc aaatcccag gttcttcata ctctggggct 480  
cttctcaac acctgaaaaa gaacaaaaca tatatat 517

<210> 11745  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11745

agcntgagac ttatcatgac caaatctctg gtatatcgcc tctaccttaa gcaagcattg 60  
tattcattta agatgctaga aaatataacg gtagaagaat agtcagatgt ctntaataaa 120  
ttgattcttg atcttgaaaa cattgatgtt actattaagg atgaagatca ggcattactg 180  
ttattgtgtg ctctacctaa gaccttngct catttcanag aaacacttct ctatgaaaga 240  
gattctctta ctcttggtga agtccaatca gccttgaact ctaaggaatt aaacgaaaga 300  
aatgaacaaa ggcccttctgt acatggngat ggactcatag ttcgtggaag acagtataag 360  
aaggatgata agacaaaagg gaaaagatcc aagtcacaaa ctcgatctgg atctaataa 420  
ccagacatta gatgttatca c 441

<210> 11746  
<211> 454  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11746

ctcagctatg ctgatacatc tacatagacc tcctcaacct gagcagcatt atcagccaca 60



acagaacaat tatgacctct ccagcaacag gtacaatccc aagtggagga atcatcccaa 120  
 ccttagatgg ttgaatcctt cacaacaaca gcaacaacaa caacaacott attnttagaa 180  
 tggttgctggc ccaagcagac catacgttcc tccaccaatc cagcaacaac aacaacaaca 240  
 acaacaaccc cagatacaac aaacaattga ggctcctcag caacottccc ttgaagaact 300  
 tgtgaggcaa atgactatgc acaacatgca gtttcaacaa gagaccagag cctccattca 360  
 gagcttaact aatcatatgg gacaattggc tacacagcta aatcaacaac agtcccagaa 420  
 ttatgacaga ataccttctc aatctatcta gaat 454

<210> 11747  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11747

gcttataatg ttaagctttg tcttatgttg ttcattgtgc tccccttatt tctatcacat 60  
 ttctcttaaa ctgatttagc tcttcatgca ttgccatcaa ccagtgttca ttacacaaag 120  
 cttcatcaat gtttcttggc tcaacctgag aaacaaaatc catgttttta cacaaaatcc 180  
 tgagtctaga acgagtagag acacctntg atatttctcc tattatgtta tccaaagaga 240  
 ggtctttctg agttctccat tctctaggaa attctttagg cgttctactt gagatctctn 300  
 tgctttcttc aagttcttta gaattgatat catcttcaag agcataatca ttntcctgaa 360  
 aagcttcatt ttcttattct annaaaatat cttgaacaat agagttaatt tcatcacata 420  
 ctacatgaac atattcttcc acacttagag ttatcctatt aaatactcta tatgctntac 480  
 tattcaatga at 492

<210> 11748  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11748

agcttaatan gtccatctat ggattgttat atgccttctc gccagtggta ttaaaattat 60  
 catgaggcca tttcttcatt cagctatgaa gagaatgtca tggatcactg tatataccac 120

aaggtcagtg ggagtaagat ttgtttcctt gtattatata tagatgatat tcttcttgcg 180  
 actaatgata aggggatgct atatgagggtg aaacaatnta tctcaaagaa ctttgatatg 240  
 aatgatatgg gagaagcatc ttatgtcata ggcataataa tccatagaga aagatctcga 300  
 ggcatttacg cttgtctcaa gaaacctata tcaacaaaat tttatagaga attaatatga 360  
 aagatngttc accaagtgta tct 383

<210> 11749  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11749

gccgtgagaa acatggtggt tcaactgtga aattgaatgt gaaatgggcc tctgatgtgt 60  
 atgacccat acctacatta ttatcacaca ctggtagaag caacaagaag cagcagaaat 120  
 ccaggaagaa gaagcctgac tagaagaatg gaaagaaggg tcataaggga aattcatctc 180  
 gagggggcag caacaaagat aagcagggtc gcaagctagg tgggacttct ggtttgtgct 240  
 acaagtcaat ggattcttgt gataaagtgc ttggagcttc tactgaatta gatgctcttg 300  
 aagttcgaag ccaggattca tactgtgtga actagcttcc tgaaanatag ttactgaagt 360  
 cactacttcg gtgagaacac tatgatgaat actctgaatg ctttctattt cctgatgaca 420  
 t 421

<210> 11750  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11750

gacctccta ttctaagcag agattcactc tacccttcca ctgaaacccc attacacata 60  
 gcctccttgc ttggacattt agagttttgt cagattcttc ttcagaatag tccaattta 120  
 gccactgaat tggactcaaa agggcggttg tctcttcac ttggctcagc taaagggcac 180  
 actgaaatcg tgaaagcgct attgaggaca taaccagaaa tgagtatggt gcgcgacana 240  
 gatgcgatgc ttccattcca tattgctgca attagagggc gcgtgggagc catcaaagag 300

ttgatcgaag agaagccaaa ctccattcaa gagatgatag anagtgatga tgggtctgtt 360  
ctgcacttgt gcgntcgcta taaccatctc caggctctga att 403

<210> 11751  
<211> 349  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11751

gtcgtcattg taagacaaaag agactatggt gtgcactngt gtgatcgaaa gagatggttg 60  
agatgtcaca gaagcgggta taaaagggct tcctcttgag agaaagaacc ttaggttgga 120  
ggaggggaatg tccaaagtga cactgaggtc actgtatgat gagatttcac gggttatgct 180  
gattgagtgt gttngagtgg aagagattgt gatatctggc acaaaagatt ggacataagt 240  
gctgtggtga agaggagaag agggatgac gctgatagtg aagagttcga tgttttgacg 300  
aggtaagggt gaatgtactc atctngagac ccgtttgga taacaaagt 349

<210> 11752  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11752

taattaatat tcgaattttc attcctttat taatatatat gtgaggggta gaggggtgtca 60  
catgtggatg caaagagaaa tttgtggaac ttgataagaa ggtgaaagga aatgtttctt 120  
ttggagattc ttccaagggtg caaatccaag gaaaagggtac cattttaatt tctttaaaag 180  
atggtgctca caaattaatc acggatgttt actatgttcc taaactaaaa agcaatattt 240  
tgagtttggg acaacttggt gaaaaggggt atgaaattca tatgaaagat tgttgtttat 300  
ggcttcgaga taaaaattct aattngattg ccaagggtgt tatgtcaaga aatagaatgt 360  
tcactttgaa cattataacc aatgaagcac aatgtttgaa ggctagcata aaagatgaat 420  
catg 424

<210> 11753  
<211> 383

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11753

gtatgagaat aagttcctga gtggatattt gatgcaatcc tcccatggag ggngcccatc 60  
 accagagtca tggttaagag actccaggaa gattgtgcca gggatgcaag agaatgcctt 120  
 anggttctca tgagccttag ggtagctntt gggcccatgg gttaagtatg tgcccactta 180  
 tctttgttca tattagatta tggtttcatt attttttttg gccttgattt anggcaccac 240  
 agtgtagggg gggtagccca taagttagg gtaccctagt aatgtaggaa ttttcagccc 300  
 ttgtatttta gggctcacag actaagtttt gtatcaggga tagtttcgta attcacatgc 360  
 attaagtgca ctatttgatg tgt 383

<210> 11754  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11754

tagagccaat tcagacgaca ataacttctt actcggatgt ctgattgagt cccgtcatat 60  
 atcgagacgc tcgagattta atgttgaagc tcttagccaa ttcaaacgac aataactttt 120  
 tactcgaatg tctgattgag tctgttaata taacgagacg ctcgaaattg aatgttgaag 180  
 ctctgagcca attcaaacga caataacttt ntactcggat gtctgattga gtcccgtcat 240  
 atattgagac gctcgaaatt gaatgttgaa tctctgagcc aattcaaacg acaataactt 300  
 tntactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcaaaat tgaatgttga 360  
 agctctgagc caattcaaac gaacaataac ttttactcgg atgtctgatt gagtcccgtc 420  
 atatatcgag ac 432

<210> 11755  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11755

gcagcttaac attcaatttc gagcgtctct atatgttatt agagtcaata agacatccga 60  
 gtaaaaagtt attgtcgttt gaatntgcat agaggttcaa cattcaattt cgagcgtctc 120  
 gatatgtgac gagactcaat tatacatccg agtaaaacgt tattgtcgtt ggaatctgct 180  
 cggagcttca acattcaatc ttgagcgtct cgatatatta cgagactata tcagacatct 240  
 cagtaaaaag ttattgtcgt ttgaatagc tcagaggttc aacatatcaa ttcgagcgtc 300  
 tcgatatatt acgggcctca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg 360  
 ctcagagctt caacattcaa ttcgagcgt 389

<210> 11756  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11756

ctaagcttct ataaggantg tattcaaagc ctctctcatg atgccaggaa tgttcttattc 60  
 cactatatta aagagcatag gagccaaagg gtctccatgt ctcaatcctc tagaggggac 120  
 tatatccttt gtaggactcc cattaactaa cattgagata gtatctgagt gaagacatgc 180  
 agagatccac tatctccatt taaagcagag acctatcctg tccatcatgt tatccaagaa 240  
 tgcccaggat attgaatcat atactttgtc taaatccact ttaagaatca tagcaggctt 300  
 ctttctctga gtagcttcat ccaccacctc attgagaatg agaattccat ggagaatgtg 360  
 cctatgtctt atgagagttg ctacctttca tcaataacct atccgcagag cctcaacaat 420  
 ttggcagagt gtgctatact tatacatgcc cc 452

<210> 11757  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11757

ctccaactca agatcattag aatgcttcan aactaaaaac tcaaacctgc ccaaaacttg 60  
 cttccttgga gagattccgc aaacgatatt tcaagcacia taggtggtgc aagataaatg 120  
 agtaactgag tgagcgcgatg gcatgaggct acagaaagaa attactttac actcaaacca 180

ccacagcttg accagtaatt tcatcatgaa gctgaagcga gccatctttc atcaaattta 240  
 ggctcanact ctngaattctc tcccttgaat attgcctaga tgctntcctc cagtcagttc 300  
 cagttttcat catcgccaca aactcctcat aactgatgcy accatcctgt gaagtgaana 360  
 ca 362

<210> 11758  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11758

tgcagactaa gtgctcacca acactanata agaatccctc aggttgtttc atgtaaacct 60  
 cttctttctat atcaccattc aggaacaccg ttgtgacatc catttgatgc agctcaagat 120  
 caaaatgagc tactaatgcc aaaattactc taagaaagtc tttcttatat acaggggaaa 180  
 aagtctttgt gtaatcgatt ccttctctgt ggtgaatcct ttagcaacaa gtcttgccctt 240  
 atgtctctca atgttgccctt ctgagctctt ctttgctttg aagatccatc tacatccgat 300  
 ggctnttaca ccaataggca actcaacgag atcccaaact cggttagatg ccatagaatc 360  
 catctcatcc ctcatagcat tataccacag atttgattcc ttacaactca tggcttgtga 420  
 caacgtctc 429

<210> 11759  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11759

gctattgngt gtcggtgggt ttataagatt aagtatcatg ctgatggctc cgttgaacga 60  
 tataatgctc gacttgtagc caaggggtat actcaaatgg aaggatagga tttccttgat 120  
 actttatctc cagttgogaa gctcacagca gtccgattat tgctagcatc ggctgctatt 180  
 catggttggc accttgcgta gctcgatgta acaatgcagt ccttcatgtg agaataaatg 240  
 aataagtcta tatgcatctg cctccatgaa tgcaactctc acaccttaat caagtttgtc 300  
 gattacaacg atcactatat gggttgaaac atgctacacg acagcgggat catcgcttgt 360

cctcatttct tttactcatg ggtcactcaa gcttaactga tca

403

<210> 11760

<211> 345

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11760

ctcagcttct gtttcaatgt cgagcttcac gatatactac ggtcacatt ctgacnttcg 60

agtnaaaagt tattgtcatt atagatttct cggagcttcc gttntcaatt acgagcggct 120

cgatatatta cgggactgaa tcagacatcc gaggaacg tntttgtcgt tagaatattc 180

tcagagctgt tgttttcaat atcaagcgtc tcgttatatt acgggactta attgtacatc 240

tgagttaaqa tttaatgggg tttgaatttg ctacgagctt ctgttttcag atacgagcgc 300

ctcgatatac tacgggacac agtcggacat cggagatata agcta 345

<210> 11761

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11761

tctcagctct cagcntgcat tccttttcac tcatgtgtcc aagtctctga tgctacatgt 60

gttgaatatt gacagcctca gtaactacta ccatatcctc atctgcaatc atgtaaagag 120

atctttgctt ctttccacga gccacaacga gatagccttt tgttaccttc caagctccat 180

ctccatctac aaaagtgggtg tgatgtccct catcatccaa ctgccttata gatattaaat 240

ttctctttaa ggtgggaata tttctgacat tgtgcaatgt ccatanggat ccactgaagg 300

tcttgatgtt gatatcacct cttccgacaa tgtcaaaaga ttatccatct gcaaggtaaa 360

ctntccana tcttctagac atatagttag acaataaatc tctagagggga gtagtgtgga 420

acgacgcacc tgatgtcatg atccatgaat caac 454

<210> 11762

<211> 190

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 11762

tccgacatcc gtgtganaag tatgagcatg agagtgtcta tgtatctcca tccanacaag 60  
nccagcatct ctatatatta taagcctgaa tccgacattc gtgtgaaaag ctctgacccat 120  
ttgaatttct caagatgttc cgttgtccaa tttctagcct ctcaacatct tatacgcccg 180  
aatcgaacat 190

<210> 11763  
<211> 243  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11763

ctcagcgaga aaggccataa gaaacaatat ctntgcaatg tcttcttcgg agaggttgtg 60  
atgtatctcc atgtggagct ttaggcctt ggatcttctt cattaatgga gtcctttgct 120  
tcttgaagat caatggaagt ggaatggaga atgaagaaag atgattgacg tcgccacttg 180  
aaggagatga tgagtcaaga agaacctcac caccatagga agtcatggat aatagcttga 240  
tgg 243

<210> 11764  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11764

attgcatacc aatgatgttg ggaagttcca tataaacttc ttcaaacaaa tctccattca 60  
naaaagcatt attaacatct aataggagaa ggcaccagtt tctagcagta gcaacacaga 120  
gcanaactct cacagtggta agcttgacaa ctagagaaaa agtataagag aaatcgattc 180  
cagcttggtg agtataacct ctggcaacca atcgagctnt gtatctatcc acagagccat 240  
ccattttata tttaactgta tacaccatc tacaacctat acaatgctta tcaagtggta 300  
agggacaag tcttcaggtg gaatttggtg gacaagtggc ctcaatatct taaggggagg 360  
ggggatgaat taagtcttac aaaattgcac tcagaacctc attaaatctc aagt 414



<210> 11765  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11765

tttcgttcat gtgtctccac cttctagttt ggagctatgc gtagtgattg cttagtgcaa 60  
 ttctccattc tcnaaccttt tcggagcccc atgaattgcg ttttcgttca tgtgtcctcc 120  
 accctcgagt tcggagctat gcgtagtgat tgcttagtgc aattctccat tctcaaactt 180  
 ttttgagacc ccatgaatta tgttttcgtt catgtgtcct ccaccttoga gtttgagct 240  
 atgcgtagtg attgcttagg gcaattctcc attctcaacc ttttacggag cccatgaatt 300  
 gcgttttcgt tcatg 315

<210> 11766  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11766

agacatacaa atgacgggta atgatgcac taacacataa ttcaatttat cgtttacaca 60  
 tgaagtcttt caccactata acatttcatt tactccatct ttaacatgtc tagtagaaaa 120  
 tcattccacg tgtctatggg tccaggcaag caccagtgc cacaatcatt ataaagtgtg 180  
 actttctcat gtggccaatg caccatatct actcgggtga ccactctggtc ttaataacat 240  
 tgcttggtga gtgtcacaca acctagattc caaaccttc gttctacctt acttctttgc 300  
 aatgtctaac tcttccaact ggatcatata taanctcaa atactactct ctaaactgtat 360  
 gtcactgggc ttaa 374

<210> 11767  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<400> 11767

ttcaatgcag aaaccatttt tgatatagag attaaattga aattaaaaga tggcaagtat 60  
 agcacgtctt ctaagtgtag aaactcagta aagttgactg ttctagagtg tgtggctatg 120

acttggtgac cagtaggctg gcgaactact atgggattta tttctctgta tgtagaataa 180  
 caagtcaatg aggatgcaac atgatctgta gcaccagagt ccaagatcca tgttacagct 240  
 tcagacttgt gaatattaca aacaaaggat agtatattac ctatggccga tgtat 295

<210> 11768

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11768

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 cattaacacc ctcttaaggt catcccagct gaaaacggac ctgtgagcaa ggtagtatag 120  
 ccaatctttt gtcactccct ccagagaatg agggaaaagcc tctataaaga tatgatcttc 180  
 ttggacatca cggggcttca tgggtggaaca aaaaatatgg aactccttaa gatgcttatg 240  
 aggatcttca cctgcaagac catgaaactt tggcagcaaa tgtattagtc cagtcttgag 300  
 aacatatgaa acaccctcat catgatattg aatgcacaa 339

<210> 11769

<211> 256

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11769

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 gccttgacgt catagaaggg aggagcatgg aaacacggct ccattgacat ggcacgtcga 120  
 cagggaggat ctggngctgc tcgattctca ggtttgtaca gaatccacgg ttttaaacct 180  
 ccaagcccct gagccacata cctcaaagta gaccatgagc tagtaaccaa cacatcagtt 240  
 aagcttaaga gataca 256

<210> 11770

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11770

tacaagtgag cttgtaacat atcttctact cttggagtga tcacctgtag tcctctngaa 60  
cccttaccac ccactctatc atcatgccga gactcangaa gcccaatagg tttagccttc 120  
tctaagtatt ctaaacaaaa ttcaatggct tcttctgcaa tgtacctctc aacaatagat 180  
gcttctggac gatatagatt ctttgtatac ccttttaaga tcttcatgta ttgctcaacc 240  
gggtacatcc accgtagata aacaggaacc acaacattga tttctctgac cagatgcaca 300  
atcaagtgaa tcatgatgtc aaagaaagca gggggaaaat acatctccaa ctggcacagt 360  
ataattgagg cctcatttcc aactcataaa cattactgga tcaatgactt gctacatatg 420  
catggagaaa aacacaggcg agtatcgtaa tctg 454

<210> 11771

<211> 305

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11771

gtctacgatg tcacgtgtga tgcaattttg ttagtcgtgg ctatacaaga catcttgcca 60  
aacaaagtca ggtagccat aactcgctg tgctttgtct tccatgccat atgtagcaaa 120  
gtcgttgatc ctattcatgt tgatgagctg gaaaatgagg ctgcaattat actgtgccag 180  
ttggagatgt attttccct accttcttg acatcatgaa tcacttgatt atgcatctcg 240  
tcagagaaat cannatgtat ggccctgttt attgcagtgg atgtaccag ttgagcgata 300  
catga 305

<210> 11772

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11772

tatgccatct agtctttcct ctggtgaac tnngaacata gggggactta ttgcatgtta 60  
tataatntac aatgtcatca taccaaggaa aagaaaaaca atngctaaca actattccta 120  
taaaagacaa catggcccag aaaactcctc accaccttaa cattgttggg gggatgaaac 180

tattcaatcc ctntcattt tggcgngtc aaccactatg ccttttagagg acattntatg 240  
 tccaagcaca atgctctcac gcaccatgaa tnggcatttc tccacattaa gaaccagtct 300  
 agtctcctta caccttttca agacaacatt ntaaattttc atataggcat caaaggatng 360  
 gaagttatct catgaggagt act 383

<210> 11773  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11773

cgagctctca aactanatgg tcattcttat acacagacgt ccgagtttgc tcataatata 60  
 tcgagacgct cgaaattgaa caacgtgtgg tgtctacaaa ctcaaattgt cataacttgt 120  
 cacacggaag tccgattcag gcgcataaca tatcgagacg ctctaaattg aacatcggaa 180  
 gctctcgaga aataccaatg gtcataacgt ttcacacgga agtccgattc gagcgcatta 240  
 tatatcgaga cgctcgaaat tgaacaacgg aagctctcta gatactcata tggtcataac 300  
 ttatcacacg gacgtccgag ttaggcgcat aatata 336

<210> 11774  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11774

tacctcatgc tctcctctaa tgactatggc atcattttctg gcgctaaact gctgggaagt 60  
 ggaggccatc ttctcaatta aattttctggc ttcagcanga gtcattgtctc caagggctcc 120  
 accactggca gcatctatta tacttctctc catattactg agtccttcat aaaaatattg 180  
 gagaagaagc tgctctgaaa tctgatggcg ggggcaactg gcacatagtt tcttaaattc 240  
 ctcccagtac tcatacaggc tctctccact gagttgtcta atacctgaga tatccttctc 300  
 gatggctgtg gtcctggaag cagggaaata ttntctaaga atactctctt aaggctcatcc 360  
 cagctcatga tgga 374

<210> 11775

<211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11775

tatatcgagt cgctcgaaat agaatacaga agctgtgaga aaattctaac gtcaatacac 60  
 ttttactcgg atgtccgatt gagtcacgta atatatcgag acgcccgaga ttcaatacag 120  
 aaactctgag caatatctaa cgacaataat attttacttg gatgtccaat tgagtcgcgt 180  
 aatatttcga gacactcgaa attgagtaca gaagctctga ggaaattcaa atatataac 240  
 ctcttgactc ggatattcga ttgagtcccg taatgtatcg agacattcga nattgaatac 300  
 agaagct 307

<210> 11776  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11776

taagctcctt caactgcaca aggctcttaa tatttgaaga gtattcttgt ggaaccttca 60  
 cccgacgaag aacttggaac aaacttatct tctccttctt ggacaaagta tggcaggctg 120  
 tgggcaagta aattntcttc ccatcagacc ttggatgcaa ctgtgatcgt atacccatat 180  
 cagctagatc ttgacgggta ttcaagccat ccttcctctt gccttgaatg ttaaggagcg 240  
 tcccaatcac actgtcacia acanttttct ccacatgcat aacatcaata caatgtctaa 300  
 cgtcaagatc acaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360  
 tctgaacttt atccttcttt ggggtcttcc caaatacaat attcaggtgt tgaacccgct 420  
 gatataccta ctaccaatc aacggtatgg acgtaatatc at 462

<210> 11777  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 11777

agctttccat acaaaaaatg ttgttttcac atccatttgt tctaacacaa gatcaaattc 60

tgccaccata gccataagta ttttgattga cctgtgtttc actacaggag agtaaacttc 120  
 attgaagtca attccctcct tttgagtga tctctgagca acaagtctag ctttaaactct 180  
 actggtccaa ctccttgat gccttctttc ttcttgaaga tccacttgca gctaaccact 240  
 ctagaaccaa gtttttttta atcaattccc atgtatgggt gtcattggaaa gacttaactct 300  
 cttcattcat ggcacttgat cttttttctt tctccttact agctaagata ggcttaagag 360  
 tttttggatc ttcct 375

<210> 11778  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 11778

agcttttaac tgggaggtcc tattcaagcg cataatatat cgagacgctc gaaattaacc 60  
 aacggaagct ctcgagaaat tcaaattggtc ataactttta actcggaggt ccgattcagg 120  
 cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaattg 180  
 tcataacttt tcacacggag gtctgagtca ggcgcataat atatggacga ccttcataat 240  
 ttaccaacgg aagctctcga gaaataccaa tgggtcatagc ttttactgg gatgtccgat 300

<210> 11779  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 11779

ttacacacat gccactctac tccatatttt taaaggatct gttgactagg acacacaagt 60  
 atattcacca ggaaaacatt gttgtggaag gaaattgtag cgctgtgatt caaaagatcc 120  
 ttccacccaa gcataaagac cctgggagtg taaccattcc ttgttcaatt ggagaagtca 180  
 ctgtgggaaa ggcacttatt gatttgggag ccagtattaa tttaatgcca ctctccatgt 240  
 gcagaagggt gtgagagttg gagatcatgc ccactaagat gactttacaa ctttgttacc 300  
 gctcaattac cagaccatat ggagaaattg aagatgtgct gggttaaaaga aaacatttta 360  
 tcttcccgat agactttgtg gtaatggata tt 392

<210> 11780

<211> 381  
 <212> DNA  
 <213> Glycine max

<400> 11780

cgctcatctga gccagcggct cttggaatgt ctttggagga ggccccaatc taagacaagg 60  
 tctcaatatg cggaaaaaat ggctgtaaat attgagaata tccaggccat cacttttcaat 120  
 cccattcctt gatgaagagt ataagctgtc cttacgcaaa catctgcaat actgaggaaa 180  
 tacctcaacc cgttatatcc ttgcatttta tctttcttct cgaacagtcg cttatgcac 240  
 taacaagaga aataagatta ttccgcagtc tcagtcattt actaatcaaa agcatgcata 300  
 tttactttct taatcagggg catgtttgga taaacatgat cagaatttac catataagtg 360  
 ctcttgattc cacaaactta t 381

<210> 11781  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11781

agctttgtaa tgtgttattt tattgtttga tggattggaa cattgatata aagttgtcca 60  
 ctatcacttt agttaattgt agcacgaatg acaaaatcat tgacaaaatt aaatataagt 120  
 tgcacttagg aagtttatta agggatgaga ctttacttca tatgtgttgt tgtgcacaca 180  
 tattcaactt gattgtaaaa gatgggttga aatttgtgaa agatgggata gagaagatta 240  
 gggatagtgt agcatttttg atagccacac caaaaaggaa ggaaaatttt aaggagacag 300  
 tgaaacaatt aaggatcccg tgcactaaga cnttgggttt agattgtcca actaggtgga 360  
 tctcaactta taaaatgctt 380

<210> 11782  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 11782

tggagaattt caaacgacaa taactttgtt atcggatgta ctcttgagtc ccgtaatata 60  
 tcgagatgct ccaaattgaa aacggaagct cgtaacaaag tcaaacgaca agaactttat 120

acgcggatgt ccaattgagt cctgtgatat attgagacgc tccaaattga aaacgaaagt 180  
acgtagcaaa ttcaaacgac aataactgta tacaccgctg tccgaatgag tacagtaata 240  
tategagacg ctacaagttg aaaacggaag ctctattag actcaatgga cgataacttt 300  
ttactccaat gagcgat 317

<210> 11783  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 11783

agcttcaaca tcagacttct tccatggtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcaagtta ctgaattctg cacatctgaa ggcactc 300  
atgagttctc tgcagccatt acaccacaac aaaatggcat agttgaaagg aaaaacatga 360  
ctttgcaaga agct 374

<210> 11784  
<211> 295  
<212> DNA  
<213> Glycine max

<400> 11784

gtgagaaaat tcaaacgaca ataacttttt tctcggatgt ctgattgagt cccgtaatat 60  
atcgagacgc tcgaaattga atgccgaagc gctgagcaaa ttctaacgac aataactttt 120  
tactcggatg tctgattgag tcccgttaata tatcgaaaag ctcgatgtg aatgttgaag 180  
ctcagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240  
atatcgagat gctcgaaatg gaataccgaa ggtctgagca aattcaagcg acaat 295

<210> 11785  
<211> 355  
<212> DNA  
<213> Glycine max



<400> 11785

agcttctaca ttcaatttct atcttttcga tatattacgg gactcaatcg gacatccgag 60  
taaaaagtta ttgtagtttg aatttgctca aggcttccgt attccatttc gagcgtctcg 120  
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttgttt gaattttctc 180  
aaagcttcgg tattccattt cgagcatctc gatatattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtagtt tcaatttgct caaggcttcg gtattccatt tcgagcgtct 300  
cgatgtatta cgggactcaa tcacacattc gagtaaaaag ttattgtcgc ttgaa 355

<210> 11786

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11786

ttctccacta agttgcctga tgcttgaaat gtctcttctg atggcgngng tcctcgatgc 60  
acggaagaat ttctccaaga acaccctctt aaggatcatc cagctgaaaa tggacctggg 120  
agcaacgcag tataaccaat cttttgccac tccctccaga gaatgaggaa aagcctttat 180  
aaagatatga tcttcttgga cataaggggg cttcatggcg gaacaaacaa tatggaactc 240  
cttaagatgc tcatgaggat cttcacctac aagaccatga aacttgggca gcaaatgtat 300  
tagtccagtc ttgagtacat atggaacacc ctcatcatga tattgaatgt acaagc 356

<210> 11787

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11787

tggtacttta cccattttgc atgcctttgt ttttactagc tttaccttat aatgcactta 60  
agtgattcat gatcactatg aatgacaaat tccttggaac caaggtaatg ttcccaagtt 120  
tggagggctc ttattaaggc gtcaagtgtt ttatcatagg tggggtagat aaggagggca 180  
ccatgaattt tttcactaaa ataagcaata aggtgcccac cttgtaacaa tactgctcca 240  
actcacactt tagaggcatc acattctagc tcagatgttt tagaatagtc atgaagagct 300

acaacaggtg ccttggtgag ctntttcttta agaaaacaaa gactcgctct tgtc 354

<210> 11788  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 11788

agcttcatgc gtatgttttg tactattaag tcaatggcaa catcattatc tcctccactc 60  
gggatgataa tatcagcata ctttttagtt ggcaatacaa aatcttcaaa acttggtctt 120  
acaaatctgg aatactgaac aatcattttg tatttagtca aggaggactt taaacatttt 180  
taaacaaaaa caactttgaa taagttatat gctgaaaaga aaaagctaca agaatcaata 240  
aaaaaatggt caactagggg atgttttagta caataaaagt tatttttcat gtgtaaaaat 300  
gatgattcct aattaataat atatttattt tgttcggcat ttatataagt tccttttcaa 360  
ggtgtaacgt ggtattttta tcac 384

<210> 11789  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 11789

atccatgcaa gacaggagat ttttgcctta tatctgtcca tgacccaacc aaacaaaaaa 60  
taacagacta aacttctcta tggatctatg ccacagacca acaaataacc tccttgaact 120  
aacatccata taggacacaa actgctcact ccaaacactc atgatcttat cccagcagt 180  
caacattgag caagcttaag cagtgatcaa acttgctctt tagaactggc tttgtgaaca 240  
tatcaacagg attgtgcaca gtgctgatct tatgaacttc gagtcttctt totgaccgaa 300  
tgaagtgata tctaacatct atatgcttgg ttctatcatg atgaacctga tccttggcca 360  
agcatatagc acta 374

<210> 11790  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 11790

agcttcttag tttcaattgt tgaagatgaa ttctgtggcta cttcatgcac tcctctaattg 60  
acaatagegt catttctggc actaaattgc tgggagtggg aaatcatctt ctcaattaaa 120  
ttcctggctt tcgcaggggt catgtctcca agggctccac cattggttgc attaatacata 180  
cttctctcca tgttactcag tccttcataa aaatattgga gaagaagttg ctcataaatc 240  
tgggtgatgaa ggcagctagc gcataatttt ttgaatcttt cccagtattc atataggctt 300  
tctccactga gttgcttgat gcctgaaata tcctttctga tggcagtggg cctacaagca 360  
aggaaaaatt tctct 375

<210> 11791  
<211> 352  
<212> DNA  
<213> Glycine max

<400> 11791  
agctttagg gttaaagtct cactgattgtc acgtgttgat tcaacaattg ttagtcgtgg 60  
ctatacgaga catcttggca aacaaagtca ggtagccat aactcgcag tgctttttct 120  
tccatgccat atgtagcaaa gttgttgatc cagtcaagtt tgatgaactt gaaaatgagg 180  
ccgcaattat actgagccag ttggagatgt attttctccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatcta gtcaaagaaa tcaaagtgtg tggctcctggg tatttgcggt 300  
ggacgtacct ggttgagcga cacatgaaaa tcttaaacat gtgtacaaag aa 352

<210> 11792  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 11792  
agcttcaatg gctcaatgag catggtgaaa atgatagtct atcaacacgt aaaaatactc 60  
ttttctatag gagaatacta tgatgaaagt ttatgtaata taaatcccta tggaagcagg 120  
gcacattttg ttgggtagac catgacaact tgacaagaaa gcaatccaca gtgggctcac 180  
caatgaaata gccctacccc atggaagcaa aacattctaa cttgtctcct tgacaccttc 240  
acaagtgggt agggatcaac tacaataaaa actcacatgg gatgagg 287

<210> 11793  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 11793

cttgggctaa ttcaaatgac aataaccttt tgctctgatg tctgattgag tcccgtata 60  
 tattgagacg ctcgaaattg aattctgaac cttagagcta attcaaacga caataacttt 120  
 ttactcggat gtctgattga gtcccgtaat ctattgagac gctcgaaatt gaattctgaa 180  
 ccttagagct aattcaaacg acaataactt tttactcgga tgtctgattg agtcccgtaa 240  
 tacatcgaga cgctcgaaat tgaatgttga agctctcagc aaattcaaatt gacaataact 300  
 ttttactcgg atgtc 315

<210> 11794  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11794

agcttcaaca atcaatttcg agcgcctcga tattttacgg gactcaatca gacatccgag 60  
 taaaatgtta ttgtcgtttg aatttgctca gtgcttcaac attcaatttc gagcgtctcg 120  
 atatattacg ggtctcaatc agacatccga gtaagaagtt atcgtcgttt gaatttggtc 180  
 agagcttcaa cattcaattt atagcgtctc gatattattac aagactcaat cagacattct 240  
 antaaaaagg tattgtgggt tgaatttgct taaagcttca acattcaatt tcgagcgtct 300  
 cgatatatta cgggactcaa tcacacattc gagtaaaaag atattgtcct ttgaatttac 360  
 t 361

<210> 11795  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11795

agctttttaa atatactact tottagtaaa aaacatgtgt ttttggtaat tatattttta 60  
 atgtctgaaa ttatattatc ttttacttaa agattaaata tttgactaaa aaaaaattaa 120

tagcgtggta ttaaaagata tcttattaca ataaataatt taataatgat ggaggcaagg 180  
aagaatttgt taaattattg atggtaaaat aaataaataa actaaacgct actttatttt 240  
accaaacact ntgattttta ttaattttat tagttaagta aattataaat taggtgaaat 300  
aatccgtccg gcacattata agatataagg aatttgaatt ttacgtttta tggtgattaa 360  
atattacgtt gaatgcctgc aaaatgacta gt 392

<210> 11796  
<211> 314  
<212> DNA  
<213> Glycine max

<400> 11796

tctataacct tttcttctat gcagtcattt attgcgaatt ctgcagtcaa aggggtgattt 60  
ccagcatagc cctttaccct ctgatccaag aagtgggggc agatcaatta gagaaggctt 120  
cttgagattt gacagcttgg cattttacat ctgtattctg tatttttata accccttaac 180  
ttccaggcat gattctggtg aatttgcaa gctgtttct actaaaggaa tatgtattga 240  
tgatatacat ctaagttcag atgacttaga aatgtccatt gatcttgctc catttttgaa 300  
tccctcacca tata 314

<210> 11797  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11797

agctttggaa ccaaattagg gaaagaaaat gacctactg tatttgaata tacttatttt 60  
atttttcttt ctttttgtat cagttattgt gagtgctttg ctgctggtgt ctactgcata 120  
gaaccctget cctgtcagga ttgcttcaac aaacctattc atgaagacac tgtttttcaa 180  
actcgcaagc agattgaatc tcgtaaccct cttgcatttg ctccctaaagt catcagaaat 240  
tctgattctg tacctgaaat tgggggttaga aaataaactc gacttagttt tccccctaag 300  
caattgaaac atcttttata ggtattaatt attatctttt tgtaggatga cccanataaa 360  
actccagctt cagcacgaca c 381

<210> 11798  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 11798

ttctgatcca aagagcttga tttacagcat tgttgcagca acatattctg cttctgctgt 60  
 gggttgagct attacttcct gtttttgtga ataccatgag aaaattccag aaccaaagct 120  
 aaaaagataa cctgaagtac ttctcatatc atcagcacat tcagcccaat cactatcaga 180  
 ataaccatga aggctggagt ttttaacata atgggtatctt attccaaaat caattgtgcc 240  
 ttttaacatat ctaagaattc tttctgctgc ctgaaaatga attctactag cacagttcat 300  
 gtgccttgat aacaagctta ctgcatgc 328

<210> 11799  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 11799

tgagcacctt ttttcacacc tctttctttg ttgatgggtt gagccttctc tagggctgtc 60  
 taactgttct gtaatcttcc tccatcatta tcttgtgcat atagtaggca gggatgattc 120  
 ctttgaaatc tgatatgtgc cacccaattg cctccccgtg tctcttaagg acctctacca 180  
 gcgtgttctc ttcctctgct gttaggtcac tgctgatcac cataggcttg gtctcattct 240  
 cctccaataa cacatacttt agatgggttg gtaagatctt tatctccacc ttgggtcttct 300  
 cgaatggacc tccgctttca attcttcaaa actgggtccc c 341

<210> 11800  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 11800

agctttgatc acatttctca ttccagacaa acttctcatt cttgtgagtc aatttactta 60  
 ggggcagtgcc caatttataa aatccctcaa tgaattttct atagtagcca gccaaaccca 120  
 agaaacttcg aacttctgtc ggaggtgtcg gatattgcca ctccataacc gactccactt 180

taatcggatc caccgcctcc ccatcttttag aaatgacatg tcccaagaac tgggctttct 240  
ccaaccaaga ttcacattcc gacgatgtgg cgaacaattt gctatccgtg agaatatgca 300  
agacaattct caagtgcttc tcatgctcct ccttattcct tgaatacact aggata 356

<210> 11801  
<211> 340  
<212> DNA  
<213> Glycine max

<400> 11801

agcttagact atgttcagcc taccatcctc aggctaatgg ccaaactaaa cggaccatac 60  
agtcgttggg ggaccttttg agggcgtgtg tcttatagca aaaggggggt tgggagagtt 120  
ttcttccgtt gatagagttc acttataaca atagttttca ctctatgttg gcatggctcc 180  
ctatgaagct ttgtatggta gaagggtcag gacacccta tgttggctag agcctggaga 240  
agaccttacc ttatgacctg aagtgggtaca acaaaccacc gagaagctca agttgatcca 300  
agaaaggatg aggactgggt agagtaagca gaaaaattat 340

<210> 11802  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 11802

taccaccata ggaggccatg gataagagct tatatgaaaa aggagatgaa tgaaaggaga 60  
gggagagaag agcacgaaat tttgtgctct aaatgagctt tgaaatctga agtttaatat 120  
tcagatgatc aaagttaaaa aaaatgcaca cacataacct ctatttatag cctaagtgtc 180  
acacaaaatt ggaggggaaat ttgaatttca attcacattt cacttgaatt tgaaagtga 240  
tttgcgagc caaacttttg agccaaaatt tcactaatta tgattagtga attttagtta 300  
tggttcagcc cactaatccc agatc 325

<210> 11803  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 11803

cgacactata caaacgcaag ctttgaaca accaccatt agtgcttctt attcctgagc 60  
 actatgaagg cctgcaagta atcatacaaa tcaacctaca accacaaaaa gctgtcaatc 120  
 caaagcaacc cccctggcct caaaactcta tccaatcat acaaaataaa ctcaaggagc 180  
 acaagatcaa tccaccatc aagaaacctt gttgtgtgaa tcaaacttag ggtgttgca 240  
 aaaaatggaa gcctttgggt tatagtcaag tagagaggaa caagtcctct tagagcaatc 300  
 atttcattgg aggggtgctcc aaaaatgata ttggctgaaa ctatactcac attgaattcc 360  
 c 361

<210> 11804  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11804

cgggatactt agaggcgggc ggcgggcatg caagctatga gcaaaaantaa attattttta 60  
 cgtttcactt cgttggctga ctgagtcccg caatatatcg cgacgctcga aattgaatat 120  
 cgaagctctg agcaaattca aacgacaata attctttact cggattttctg atttagtctt 180  
 gtaatatatc gagtttctcg aaatcgaata ccgaagctct gagcaaattc aaacgacaat 240  
 aactttttac tcggatgtcc gattgagtac cnttatata 279

<210> 11805  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11805

tatctagacc tggagacaag ttatgaacat tacttgtgca tccaaaaata cgtggatcaa 60  
 catgaaacaa tggttcttta ggaaataaaa tggaatatgg tattttattt ttaatagagg 120  
 aagaaggcat ccgattaatc aaaaaatata ctgtcaaac tgcacaccc caatgtcgga 180  
 caagtacatt ggcatggagt aataatgtcc gatgagtctc agcaagatgc atatttttgc 240  
 tttcgcatg tcattntgtt gacgagtatg aggacaagag gattggtgga taatgccta 300  
 cgctgacaaa aaggaagaaa tcacatgaga aaagtatttt ttacattat cactcctaag 360



gatcttaatt gtcttactta actgagtttt aat

393

<210> 11806  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 11806

tgtaggggta aagtctcacg attgtttcgt tctcatgcaa caattgttag gtgtggctat 60  
acgagacgtc ttgccaaaca aagtcagggt aacgataact cgcctatgct ttttcttcca 120  
ttctatatgt agcaaagtca ttgatccagt catgtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
cttgattgtg catctgatca gagaaatcaa atgttgtggc cctgtttatc tacggcggat 300  
gtacctgggt gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatc 356

<210> 11807  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 11807

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ctattatttg gtaaacttag cttctctatt tctccacatt ggatgcaatg tactacttct 120  
cacttgtaat catctaact aattagttta gatagttata aatgtagagt atgtaataaa 180  
gcaaaataag acactacaca aaaaatgtaa atctacttac tcttactaga aatttgtttt 240  
tgaaatcatc taataaaaaa agctatatat atagcttggt atttaaatgaa tatatgatat 300  
aaatatgtga aaatacaatt ataattattt tgagatatct tatctgcccc aatgattaaa 360  
caattaactc ttatgaaaa 379

<210> 11808  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 11808

tatgctgcag acatatata tagaccttct ttatttagta gcaaaatcag ccacaacaaa 60

acaattatgt cctctccagc aacaggtacg atccccgggtt gaggaatcat cccaacctta 120  
gatggtcaaa tacttcacaa cagcagcgac aacaacaaca acagccttat ttccagaatg 180  
ttgctagccc aagcagacca tacgttcttc caccaatcca gcgacaacaa caacagccac 240  
agccccagaa acagcaaata gttgacgctc ctccgcaacc ttcccttgaa gaacttgtga 300  
ggcaaatagac tatgccaaac atgcagtttc aacaagagac caaacctcg atttagagct 360  
taact 365

<210> 11809  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11809

agctagcaaa ccaaagtctc atcactatta gaggagaaac cttcaggttg ttttatataa 60  
accttctcct ctaaatacacc attaaagaaa gctggtttca catccatttg ttgcaactca 120  
aggtcaaaat gagcaactaa tgccaagatt atatgaagag aatctttctt agatactgga 180  
gaaaaagtct ctttgtaatc tattccttcc ttttgagtaa atcccttata aacaagtctt 240  
gccttgtatc tctcaatggt gcctaatagaa tccttttttg tcttaaagac ccatntacat 300  
ccaatagcct tcgccccatt aggcaactct acaagggtcc aactttgtta ctctgcatgg 360  
aactcatctc atccttcat 379

<210> 11810  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 11810

tggcaagagc tccagcagct aggggaattga tgtttgtgca tggttcagcc ttaggcgagt 60  
gccaacgttt atcggtgaac ttgtcggtga agtcaagtcc acccaaaatg gcaccagtga 120  
gttcatgggg gttagggtgca tctttttgaa accatttgga gaagctcgtg gcgcatacca 180  
cctcttcata ctttttcagt tttggcaccg aaacacctct atggtgagcc tgcgttggtg 240  
ggttctttcc aaatccaacc atgtaagatc ttctatcagg gtttttccct agtatgtaat 300  
ccatctgtgc aaattgcaat ttctccaccc aattaatcaa taagtcta 348

<210> 11811  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 11811

tatacagtag agctgcaggc gtgccagcct agaacagaaa cttaattcct taattccttg 60  
 ttaaggctgg ttgcaggagc tgtggcatcc ttccaccac catattttga cacaaattca 120  
 tctttgacac gctctaaaaa agccatgggt aactgggttt caattgattc atctgcaaca 180  
 acacaatatg cttgataatg gcagaaggct gaaatttcat aacactacca aactcaaaaa 240  
 aaatatacgg ttcacctcta caaaagcagt atcagcagat aaaattataa cttaaaagaa 300  
 aaccaatgaa tacttagtta tcaagcttaa atagcagcac ttgctgcaa gcaccataaa 360  
 agctatagca agatgatgaa tagtggaatg accaccattc tgaagattct agatacaa 418

<210> 11812  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 11812

agcttttgaa ttatcaatat tcaaacttgc ttctacacc ataattcttg cacctaattg 60  
 gaaatatggt ttgagctca tatgttacgc aagtgattat gtagttgggt ttgtcttggg 120  
 acaaaaaaaaa gaagacaaaa tttttcatgc tatacattat gctagtaaag tccttaatga 180  
 gcatcaagtg aattatgcaa caaccaaaaa tgaattacta gctataatct atgcattgga 240  
 aaaatttaga tcttatctca ttgctctaa agtggttggt tatacagatt atgcaactat 300  
 taagtatctc ctatctaagc cagattccaa accaaggctt attaggtgga tacttatgtt 360  
 gtaagaattt gatcttgaaa t 381

<210> 11813  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 11813

agcttgccca agcaattttg gtcagaggca attaatttg catgttattt ggtgaacata 60

tctccttcta caactattaa ttgcaagaca ctagaggaaa tgtggtcagg ctctaaaata 120  
aattattcaa ttctgtgtgt atttgggtgt ctagcttata ctcatgttaa taaaggaaaa 180  
tcggagccaa gagccaagaa atgcacattt ttgggttatc aagatggtgt aaaagggtac 240  
aggctatagg accctaagga atcaaagctc ttgattggta gagatgtgat ctttgatgag 300  
acaatcatat ttaatccaag accacatgag gaccataata ataaatttga aggtcatggt 360  
gttcgcaaaa aggtggagca 380

<210> 11814  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 11814

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tacatatatc agctgcccgg ggagtatact gtaagatcca ccttcaatgt ctatgattta 120  
tctctttatg atgcagatgg agaatccgat ttgaggacct atccttctca agagggagag 180  
aatgatgagg acatgttcaa gagcacgggc aaggatccac tatgaggact tggaggacct 240  
atgacaaggg ctagagcaag gaaagcccat gaatctctta aacgagtgtc gtccatacta 300  
tttgaataca agcccaagat tcaaggagaa cagtccaatg ttgtgagtag tatcatggcc 360  
caaa 364

<210> 11815  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 11815

tagcttatac aacgtgctat tatcttttgg aaataaagga atacaatatt atttaactgt 60  
ttcttgtttt aaaaaattgt tatcattaat aattagagga tatcaataaa tgatctttgt 120  
attaattaag taaatacccc ttcagtctat gcattggtta aggtgtttgc acagggttaat 180  
aaatactatt taatttatac aaaagtgatt taactatcct taattattta ttacttcttt 240  
ctgactttta tataagacac tttgagaata attacacaaa ccaataaata gttaatttta 300  
tgattttttt aaatgttatc aatataccaa ttttacctta ttactaatca ttaactgttc 360

aagtattatg tatccctatc aata

384

<210> 11816  
<211> 383  
<212> DNA  
<213> Glycine max  
  
<400> 11816

agcttgtgtc actattcact gtgatagtca aagtgtcatt cacttagcaa atcaccaaatt 60  
gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacacagag atgtgattga 120  
atctgagaag gtgaagggtg agaaagtttc aacagaagaa aacccggctg atatgttcac 180  
aaagtccctc tctagtgtca agttcaagca ctgcttggac ttgatcaatt tcgaagatgc 240  
ctaaagcaga ttggtagaag tgcagccctg aatcacaagg tagacacttg ctgatttgga 300  
gtcaagggtg agatttttgg tgtgtgactc aaaatcaca atggcacaag tgagaaggct 360  
ttaaagtggg gttgtcataa ctg 383

<210> 11817  
<211> 392  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11817

tcttagtttc agatgatgca gatggggttg tagctacctc atgcactcct ctaatgacta 60  
tggcatcatt tttggcacta aactgctggg agttggaggc catcttctca attaaatttc 120  
tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180  
tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
gggtgggggca actggcacat agtttcttaa atctctccca gtactcatac aggtctctctc 300  
cactgagttg tctaatacct gagatatacct tctgatggc tgtggctcctg gaaacangga 360  
aanatttttc taagaatact ctcttaagtc at 392

<210> 11818  
<211> 172  
<212> DNA  
<213> Glycine max

<400> 11818

tctcgattgc ctaagcgtgg accctctatg ttcattcctc cattcaccac ttttttggga 60  
gccccacgta tgtgggcgcc tatcgcgggg caagcatctt gcgacgttca catccgatgc 120  
cgacaaatgt gaacgcctag ctatactg caatgatgca tgtccccact tt 172

<210> 11819

<211> 387

<212> DNA

<213> Glycine max

<400> 11819

catgcaagct tattgttggt tctctcccca tttgaaacca acatttttct tgagcacttc 60  
attgagaggt gctgccaatg cgctaaaatc cttcacaat cgtctataaa aacttgctaa 120  
gcatgaaaa ctcctcacct cggtcacaga cttaggtgta ggccattttt gaatagccct 180  
aaccttctcc tgatcaactt gcactccttt tgaactcaca acaaaaccaa gaaacacaac 240  
atggtagta caaaagatgc atttttcaag attggcatac aattgttctt ttctaagcac 300  
agtcaagaca gatattaaat gatcaatatg ccaatcaagt gaagtgctat agataagaat 360  
atcatcaaag tacaccacaa caaactt 387

<210> 11820

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11820

ntggagtttc caagtgccaa ttcgtcctct tctttagtcc agtcttcttc tggcttcaat 60  
tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattattgc tttccagtat 180  
tcatagttag ttccatcaag aattgggtgt ctgttcaactg gtctccttc tttctccatg 240  
ttcatcagaa tttatctccc cagatctcac tctgtgattt cgagtgttgg ctctgatacc 300  
aattgaaatt ctgataccac gggacaaatg tegtacacga tgtcacgaca tcacgcttag 360  
aacatgcaga ttgtatgtg 379

<210> 11821  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 11821

agcatgacct tctgacctga tgaggctgac ccttgaggag cccgtctaga gcgaaattga 60  
 cctctgcaac gtgtccatc atctctccga actcctgcgc ctccatcagc gtggacgtcg 120  
 ccggaatccc ctccgcgggc gcccgcttcg tcctcttcga ctaccttgct ccgcctgcgc 180  
 cgggtgccgtt tccgaagtcg ccgatctccg aatacaataa ggaccaatgc tgtgaggacc 240  
 agtcctgtga ggaaaacacg aagccgcata gagggtcctt tttctcctg 289

<210> 11822  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11822

gatgatngga gacgacactt caatgagaag atgagtcaag aagaagctca ccatcatang 60  
 aagccatgga taacagcctg aatgcangag aagatgagtg gacagagagg gagagaacga 120  
 gcacgannat ttatgcctca natgatgtat aaactttgaa gtgtaattct taaatgatca 180  
 aagctgataa aatgcacaca catggncctt attatagcct aagtgtcaca caaattgagg 240  
 gaattgaatt ctttaaatta cttgattgtg ggccaatttg gatcacaatn tactaatatg 300  
 atagtgattt agtatgtcac tctatcagac 330

<210> 11823  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11823

ttctaccctc taaccctnta gaacacttaa tgttgtctcn taatttgttt acaacaggac 60  
 caactacttt caaccctct tgaacaataa ggtgtaaaat ctgagcacia catcgatat 120  
 gagaaaattc accaccactt actaaacat tattatgcac aagaagtctn tccttcaaat 180  
 agtcttgcat cttatcatta gaagaagcat tatccaaaat taatgaaaaa aaattccact 240

aaatcaccca ttcttaaaaa aaaaccatat ataatttttag ccatctcatg tctggagttt 300  
 ggagaaggaa aatgagaaaa attaagcatt ttactattca gcttccaatt tacatcaaca 360  
 taatgtgtag ttaatgaaaa acaagatgtc catccatcag atgtcaagtc tattctacta 420  
 gtgactctag acaacatgca tntcannttt ttcttntcaa aatcatacaa atcggtcata 480  
 tttaatggag caacacgccc agaggggtacc ttaacatctg gat 523

<210> 11824  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11824

ctcggatgtc ngattcaagc gcataatata tcgagacgct cganattgaa caatggaagc 60  
 tctngagcaa ttccaatggt cataactttt aactcggatg tccgattcag ggcataata 120  
 tctcgagacg ttcgaaattg aacaatggaa gctcttgagc aattcaaagc gtcataactt 180  
 ttcactcgga ggtccgattc aggacataa tatatcgaga cgctcgaaat tgaacaatgg 240  
 aagctcttga gcaattcaaa tgggtcataac ttttctctcg gaggtccgat tcaggcgcat 300  
 aatatatcga gacgctcgaa attgacaatg gaagctttta gc 342

<210> 11825  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11825

tcacacatac actcaacact gtgttctact cagctgtcta caatataata ctntaacaca 60  
 tgacacatac acaaggacat gaatcttcaa ttaaagagat atacaacaca tggcataacc 120  
 atgaaatatg agaaggtag gaataagggg tgaaacagta accaccgaat cagaagcata 180  
 aagtatatat acctttattg caaaaagatc accagttggt ctcttggttag ccaagaaaac 240  
 tcttccatat gccccacgac tgatagggtt tataatctca aagtcacaa tagagggtcg 300  
 atcccttgaa gaatggatgg ggctnngtct cangctgga accacatcat cttccaagat 360  
 atcatcatca aca 373



<210> 11826  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11826

atgtttccta ccacagtcca acctttactc caggacttct catccatatt ntatcaatcc 60  
 caaggcttac cccacccgcc ttcaatccca taaccaccaa attcctcttt tacccaattc 120  
 caaaccaatg aatgtaaaat cataccgtta ccctcacatt caaaaggagg caatgacaaa 180  
 aatcatttcg gagatgttga atgaaagatt gattgtgcaa agtcacaatc ctttntcttc 240  
 cccagtgtcg ttgaattgct aaaaaagatg gaactnnggt gctttgtacg aattatagag 300  
 ctctcaatgc cattacaatc cgagatcaat ttcttattcc aacacttgat gaattatngg 360  
 ataagttac 369

<210> 11827  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11827

tcactctact ctaatatgat cagcttaatt tataatctcca aggtctttat gaactcattn 60  
 tctaatactg atcctacgat tagacgtata attaactaga aatactotta acaacatctc 120  
 tactaaaata acgtcatatt tctagtagaa aaattcttca aaacactggt gattgattca 180  
 aacatatttt aaagttaag ctctaggctt atcaataaaa aatatgtatc tatagtctct 240  
 attaaacaaa aagatgatat atgttgagct aactctttan aagatacacc aaattgtcat 300  
 aaggaataaa gtcaaatgaa tatttgagtg tcgagttcac aagatctttt attatatnta 360  
 gattgtgtaa cctaattcta agcattaata gagtgaagag atagaaattt atatgagaac 420  
 aaaaatggac tatacgacat gaaataacaa tatcgatg 458

<210> 11828  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11828

atcttcaatg tacatgcgaa ggtgaaggat actctaattgt tcaatacttt tgttctctgc 60  
caagtcttca acgagtncaa ctctagaagt atggagagac tcaatgtgtc tcaaggcatt 120  
cacaaanacc acttatttct tcgaattgtg aggattactc tggttcttta agtattgatg 180  
gtggaactcc taaagaagta tgctgataca gagagattga catgcgagca atggagaatc 240  
tgtattgtca ttgcagctgc gtcctggcaa ttgcttgaat acaaagctcg tacctgtcag 300  
attaacgtca tcaccaccac gttaagtggg aaattatggg cttaagatta acattgtata 360  
atctacctct cacacgttaa gaatataatt caacct 396

<210> 11829  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11829

ctgcagctta ngaggtattg cataatcgct aaacgcttat tctaataacc gtctagaaag 60  
cgatttatat ggacttgtat taatatntaa ttattaattc ctactttttt cctttatgtn 120  
ttatgccctt acatataaaa taataatata aataagaaat attggattga atattctatt 180  
catgttacan aatgacctta tagcatgttt acaaaataca ataaatgcat gtataaatng 240  
ctaanaatta tgaataagat cttctatcca tttctgtgga actagtaata taaatgggta 300  
aanattatga aaaggaataa catataacct 330

<210> 11830  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 11830

atatggagag ggtaatgaaa taacaagatg atgcgctcca tgagaggggtg gatcaaatgg 60  
agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatcgt gttcctagac 120  
aaaaccgaat tgatgggtatt aaactcaaca ttctccatt taaaggaaag aatgatccgg 180  
aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac aactatgagg 240

aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt gtgtggtgga 300  
acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata tggacggaga 360  
tgaaaaagat catg 374

<210> 11831  
<211> 505  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11831

tcatctgcat atngctgaat gttactgtca ccttctgctn tcctactaaa taactgttgt 60  
acagaccttn ggatagagtt gtcctcatca tgctagtcaa gcttgaagcc acaatattga 120  
aaaggaaagg ggctaagggg tccccttgcc tcaaacctct agtgggggca aattcatttg 180  
aggggctgcc atttatgaga atggatatag aagatgattg attgcaagca ttgatccatt 240  
tcctccatat aggacagaac cccatttgac catcatataa tccagaaagt tccatgaaac 300  
agagtcataa gcctttgcna agtccacctt aaacaccaaa agctggttct tacttctttt 360  
atcttctctt attgcttcat tgagaatcaa agttccatga aggatgtttc tatcctttat 420  
gaaaagtgnt ngctctctcat caatgagtcc agngcaataa tttcttaacc tatntngcca 480  
gtaattagca atgatcttat acata 505

<210> 11832  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11832

gccatgacca gaaccacatt tatgtgtgac atgaagatgt ttaggtggc atcaccaatg 60  
gatatgcagt catcaccagt ttgcaaggta caccatttaa tggtaacccc agttgagcgt 120  
tcaacatgaa tgccatcggg gttagggtct tgggtctggg caataagcct cacaatttta 180  
acaagaacat tgtngcaagc gttgatcaca atgtgacttt agctggctgt gatagaagtt 240  
atgccactaa ccaccaagtt attcaccag ttgaatgtca ttgactgcaa tnnatagcat 300  
gtattcagtc gtacataata ttcactggat aaacataata ttctagttcc agctaaaata 360

taaagtacag aattctntca acacattctt agtcagccaa cattatagaa cttacgatta 420  
ccacatatat acat 434

<210> 11833  
<211> 371  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11833

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cactcatgaa ggaacctcca aagtgaagat ttccagattg caactcttgg ctacaaaatt 120  
cgaaaatctg aagatgaagg aggaagagtg tattcatgac ttccacatga acattcttga 180  
aattgccaat gcttgcaactg ctttgtgaga gaggataaca gatgaaaagc tgggtgagaaa 240  
gatcctcaga tctttgcta agagatttga catgaaagtc actgcaatag aggaggccca 300  
agacattcgc aacatgagag tagatgaact cattgggttct cttcanacct ttgagctang 360  
actctcggat a 371

<210> 11834  
<211> 395  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11834

actcgcattg ctgggttgagt cccgtaatat atcaagacgc actcaattga atgttgaaagc 60  
tgagagcaaa ttcaaacgac aataactttt tactcggatg tctgattgag tcccgtata 120  
tatcgagacg ctcgaaattg aatgttgaaag gtctgagcaa attcaaacga caataactgt 180  
ttaccgggat gtctgattga gttccgtcat atatcgagac gctcaaaatt gaatgttgaa 240  
gctctgagcc aattcaaacg acaataactt ttactcggga tgtctgattg agtcccgtaa 300  
tatatcgaga cgctcgaaat tgaatgttga acctctgagc caattcaaac gacaataact 360  
ttntacttcg atgtctgatt gagtcccgta atata 395

<210> 11835  
<211> 262

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11835

catgctatat gtagcaaagt catcgatcct atgaagtatg atgagctgga atatgacgcc 60  
 gcaattatat tgtgccagct ggagatgtat gtcctctctg cctactatga catcatgatn 120  
 tactcgatgg tgcacctagt cagagaaatc aaatatgggtg gtcttgggta attgccatgg 180  
 atgtacccga ttgagcgata catgaagatc ttaaagggga tactaagaat ctctatcgtg 240  
 cacaatcatc tattgggtgag ag 262

<210> 11836  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11836

ataacgtntc actcggatgt cggattcaag cgcataatat atcgagacgc tcgatattga 60  
 acaatggaag ctcttgagca attccaatgg tcataactct taactcggat gtccgattca 120  
 ggcgcataat atctcgagac gttcgaaatt gaacaatgga agctctcgag caattcaaatt 180  
 tgtcataact tttcactcgg aggtctgatt caggcacata atatttcgag acgctcgaaa 240  
 ttgaacaatg gaagctcttg agcaattcat atggtcataa cttttcactc ggaagtccga 300  
 ttcatgcgca taatatatcg agacgctctg aagttaacaa tggaagctct ttagcaattc 360  
 acatgggtcat aactcttcac tcggatgtcc gatcacgcac ataatatatc gagacgctcg 420  
 catttgaaca ac 432

<210> 11837  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11837

ttgtgagccc tgggtgtgant gagtntccct cttcagataa atgtgaggcc cttcaccatt 60  
 aggtctcttg tgatgctccg tcaacctttc agcaaaataa agaggactct cccgtccaac 120

ataatctttt agaatcccag ctagttctgt ctgcaattga naacatccat ctcagagaat 180  
 ttccattgtt tttccttcca ggaaactaca tttcattgta tggcttctga atgtagtta 240  
 catacaatga atgagtgacg tgcattgtatg ttagagagac agaaagttat tcttaatata 300  
 attgagaaaa gaatgacatg gagt 324

<210> 11838  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11838

tctgtcggtc aatttttagtg tctcgatata ttattcacct gaatctgaca tccgtgagat 60  
 aagttatgac catttgaatn tctcgagaac tttcgggtgat caatttcgag catctcgata 120  
 tgttatccac ctaaatcgga catccgattg aanagttatg aaccattgaa tntctcgaga 180  
 gcttcggttg ntcaatttcg agcatctcga tatattattc gcctgaatct gacatccgtg 240  
 tgataagtta tgaccgatta aatatgtcaa catcttcggg cgttcaattt cgagcgtctg 300  
 gatttattat ccacctgaac tggacatccg ttcgaaaatg tatgaccatt tgaattctcg 360  
 agagcttccg ttgttcaatt tgagcgtctc gatataattat g 401

<210> 11839  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11839

gtgtctccat ggngagcagc tagtgtgtag tgaggaaaaa agatggaatt atgaggttgt 60  
 gtgtagacta ccgccagttc aataaggtga cgaataagaa taagtacctt tttcctagaa 120  
 taaatgacct tatggaccag ctgataagag cttgtgtgnt tagcaagata gaccttango 180  
 caggttacca tcagatctaa gtgaagtcnt gaaatattcc gaagactgcc tntacgaccc 240  
 gttatagtaa ctatgagtat ctagtatcta gtatttttct tcaatgtgac taat 294

<210> 11840  
 <211> 265  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11840

acaatggtga gttggttgtg gataagcaag tggtacttac attctccata gcanagtatg 60  
tngatgatgt gaatngtgat atggttccca tggaagctgg acatatgtng ctnggaagac 120  
cttggcaata tgatagaggt gttgtccaca atggngtcac gaatcgatat tagttcttgc 180  
ataaaggtaa naaggtagtt ctcaccttcg tctccaagtg aggtgtgtga ggatcatata 240  
acaatgagat taanaagaga aagag 265

<210> 11841

<211> 464

<212> DNA

<213> Glycine max

<400> 11841

acatggggta cgaatgaggc ccatgatata tcgagaggct cgaaattgaa aaatggaagt 60  
tctcgagaaa ttcaaattgt cataactttt aacttggatg tccgattcac gcacataata 120  
tatcgagaca cacaaaattg aaaaatggaa ttctcgagaa attcaaattgt tcataacttt 180  
tgccctgaat gtcagattta ggcacataat atatcgagac gctcgaaatt aaacaagaaa 240  
gctctgggtcc aattcaaacy gccataactt ttgacatgag tgtatgattg aggcccatga 300  
tatatagaga acgctcgaaa tgaataatgg aagttctcga gaaattaaaa ttgtcataac 360  
ttttcactcg gatgtccgat tcagacacat aatatatcga gacgcttgaa cctaacaagg 420  
aagctctggt ccaattcaga gggccataac ttttgacatg ggtg 464

<210> 11842

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11842

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taactattca acttatgata nagagtnhta tgccttagta cgggcttnga aaacatggca 120  
acactacctt tatcccaagg aatntgtcat tcatagtgac catgagtncc tcanatatat 180

caaggggcaa ggcaagctta acanaaggca tgcgaagtgg ggtggaatcc tagagcaatt 240  
cccttatggt atcaaacat 259

<210> 11843  
<211> 184  
<212> DNA  
<213> Glycine max

<400> 11843

agcagagcaa ttatgacctc tccagcaaca gatacaaccc tggatggagg aatcaccta 60  
acctcagatg gtccagccct cagcaacaac aacagcagcc tggctccttc ttccagaatg 120  
ctgctggccc aaacagacca tacattcctc caccaatcca acaacagcaa caaccccaga 180  
aaca 184

<210> 11844  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 11844

gaggacacat gaacgataac acaattcatg gcgctccgat aaaggggttg agaatggata 60  
attacactaa gcaatcacta ctcatagctc caaactcgaa ggtggaggac acatgaacga 120  
taacgcaatt catggggctc cgaaaagatt gataatggag aattgctcta cgcaatcact 180  
acgcatagct ccatacgca aggtggagga cacatgaatg aaaacgcaat tcatggggct 240  
ccgaaaagat tgagaatgga gaattgcact aagcaatcac tacgcatagc tccaaacttg 300  
aacgtggagg acacatgaat gaaaat 326

<210> 11845  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11845

tagagtctga atagttcgtg cagtctgacc atctcgttga ggatgataag ctgaactaat 60  
cttcagcttt gtccccaagg cttcatgtaa acttgctcac aatcgcaag tgaaccttgg 120  
atccctgtca tatacaatac tacgaaagaa ttccatgcc cttactact tacttgatat 180



acaactccac tagctnttcc attctatacc tcatattcac tgggataaca cgagccagat 240  
 tggtgagtcg atctactat 259

<210> 11846  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11846

cgcccttatcc cactaggtgg tgcggctac atggatcaac ttccaccata atgttctatc 60  
 aagtaccata cttctatcca aatcattaag ttcgagatcc tttntgataa cctctcttat 120  
 agtctctgtg ggtcttcttc tgccctgaat tgtttgtctt ctctccatct ggtctactct 180  
 cctcactaca gagtctaccg gtcttctctc tacatgccca aaccacctaa gtctattgtc 240  
 catcatcttc tctacaatag gcgctactcc aaccctctct ctaatagctt cgttttctaat 300  
 tctatcctgc cgagtcttac cacacatcca ccgcaacatg ctcatctncc ctacacctac 360  
 tttatttctc atgtggctct tgaccgccca acattctggg tcgtacanaa tcgccgggtct 420  
 ttaccgcagt ccgataaact tttcctttaa 450

<210> 11847  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11847

ctctctcatg taatgatgta gaatctacag ccaaagactt caaaaaaggg ggtcattccg 60  
 aaacatctcc tgtagttctt caagaagggt agaaattaga agatttcagt gcaaattgagt 120  
 ctcatctgac tgctaaacct gatcctccac agctcaattc tggaatcaat cagagaccaa 180  
 aaagggtcac taaacctccc gaaagatacg gatttgaaga catggctgcc tatgcattac 240  
 atgcagctga agaaatagat tcaaataaac cagccactta ccaagaagct atcaatcatc 300  
 ctgaagctga nnaattgggt tagctttgaa agaggaaatg gaatctttgt ataagaatca 360  
 gacctggaaa ctttgtgaac tacctgaagg aagacatgtg gtaggtngca agtggatatt 420  
 caagaggaaa cctgggtct 438

<210> 11848  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11848

tgctcaccaa cacaagataa gaatccctca tgttgtttca tgtaaacctc ttcttctaga 60  
 tcaccattta ggaacgccgt gttcacatcc atttgatgca gctcaagatc aaaatgagct 120  
 actaatgcca gaattactcg aagagagtct ttcttagata caggggaaaa ggtctctctg 180  
 taatcgattc cttctctttg agtgaatcct ttagcaacaa gtcttgccctt atgtctctca 240  
 atgttgccctt ctgagtcttt ctttggtttg aagacccatc tacatccgat ggcttntcac 300  
 caacaggcaa ctcaacgaga tcccaaactt ggttagatgc catagaatcc atctcatccc 360  
 tcatagcatt ataccac 377

<210> 11849  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11849

acgggactga attagacatc cgagtaaaaa gttattgtag tttgaagatg ctcagagcgt 60  
 taccattcaa tatcgagcgt ntcgatatat tacgggacta aatcagacat cagagtaaaa 120  
 agttaatgtc atttgaatta tctcagagct tcggtattcc atttcgagcg tctcgatata 180  
 ttacgggagt caatcagaca tccgagtaaa aagttactgt cgtttgaatt ngctcagagc 240  
 ttcgataatc aatttcgagt gtctcaatat attacgcgac tcagtcagac aaccgagtaa 300  
 aaagtattgt cgttgaatt tgctcaaagc ttctgtattc aatttcgagt gtctcgacat 360  
 attatgggac tcaatc 376

<210> 11850  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 11850

tggatttcct tttagtaggg agtctatcct tcctaagatg gagccaaacc cactcaccct 60  
 cattaagaat tagctttttt ctctctctat tgtcttttagt tgaatacacc tttgttggat 120  
 tctctatttg gttcttaacc ttctcatgca acttctttac aaactctgac ctagattccc 180  
 cttctttatg tataaaaaaa gtgtccagtg gaatgggaat gaggtctaata ggtgttaggg 240  
 gattgaaccc acctcaaaag gggattgctt ggtggttcta tgagtcccc tgttgatga 300  
 aaattctaca tgaggaagat actcatccca agacttatgg ttgtctttca ga 352

<210> 11851  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 11851

agcttctctg aagtcaaacc acacacatat atatcatg acatgggaca aaatagttct 60  
 tataaaaatg ttttccccag aacaagtaca cgtaaattat aacaaatgaa caaacaaaaa 120  
 agcatacttt cattgtctcc tatcaaagt atcctgagaa aacaaacaaa agtgagtcac 180  
 ttacagggaa caaattcttc cagaactgaa gatcagtcctt aggaggctca actatcttgg 240  
 tggcccaaca gaacaacatt atgagagagc cacatgcaag ggagagagtt gaggtaagcc 300  
 aagggtatgg gaatgcattc atcaccttct tgttataaat gttgaacacc acattcagtg 360  
 cccaccatgt agcaaagtat attccaatct tcaccttctt agcagcctct gatggagccc 420  
 cagcccctcc aacctttgat ctatcag 447

<210> 11852  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 11852

acttgccagg tgattcaaaa tgaaaaaggt ctctacattg tttcaattag aagatcatgg 60  
 aggtaaaattt cacaatgact cttttgaaaa cttttgtgaa gaaaatgtat ttcaccacaa 120  
 tttttcagcc cgtcagcac ctcaacagaa aggtgttgtg gagaggaaaa atatatccct 180  
 tgaagaaggt gaaagaacac ttctaaatga aacaagggtg cgtaagtatt tttgggcaga 240  
 tgttgatcat actatatgtt acacctttaa caaagtaact attagacctt ttctgaataa 300

aaatccttat gaaccgtatt aaggaagaaa actgaacatc tctcacctaa tagttttttt 360  
gcaagtattt tgtttttaca atggtaa 387

<210> 11853  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 11853

tgccgccacg gagtttttcg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60  
agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120  
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180  
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tcgatttctt aatgggttga ctaatgatat 300  
ccgtgatatt gttgagttgc acgagtttgt tgaaatggat gatttgcttc acaaagcaat 360  
ccaagtggag caacaatt 378

<210> 11854  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 11854

agcttgaaat tgaacatcag aagctctcaa gatattcaaa tggtcataac ttgtcacaag 60  
gatgtccgat tctggcgcat cacatatcaa gacgctctaa attgaaaatc ggaagctctc 120  
gcgaaattca agtggtcata acccgctatt cggatgtccg attcaggcac ataatatatc 180  
aagatgctcg aaattgaaca acgaatgctc tcgagaaatt caaatgggtca taacttgtca 240  
cacggatgtc cgattcaggc gcataatata tccaaacgct ctaaattgaa catcggaagc 300  
tctcgagaaa ttaaattggc atacttgtac accgaagacc gatctgcgca taca 354

<210> 11855  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 11855

tcctctaagn cacctgctgc atgcaagctt gcgaattttg gcgatatcag gggacatatg 60  
cttgatgact gcagtgagaa caccaacctt ccacgccttc tttaagtcac gtggttactc 120  
gtatagagga gggccttgat ctttatgtag accaatttga tgccaccatt cttcattccc 180  
agttggccac catggtggaa gaacacctt ctctattggg aacctcctct gatgaggatc 240  
acagtgctgc ataagtctg acaagataga acccaagggt gtgtccttgt aactcttgca 300  
aggtgtgtgg tgtcgaccaa tggaactgat ccatcatt 338

<210> 11856

<211> 405

<212> DNA

<213> Glycine max

<400> 11856

tccaatgtat aatttcgagc gtcttcatat attatgcgcc tgaatcggac ctccgagttg 60  
aaagttatga ccatttgaat ttctcgagag ctttcgttgt tcaatatcga gcactctgat 120  
atattatgcy gctgaatcag acctccgagt gaaaagttaa gaccatttga attgctaaag 180  
agcttcaatt gctcaatttc tagcgtctcg atatattatg cgcttgaatc ggacctccga 240  
gttaaaaagt atgaccatta gaattttttg aaagcttccg ttgttcaatt tctggcgtct 300  
tgatatatta tgcgcctgaa tcggacctct gaggtaaaag ttatgacct tcgaattttt 360  
tcagagcttc cgttgttcaa tttcaagcgt ctcgatatat tatgc 405

<210> 11857

<211> 387

<212> DNA

<213> Glycine max

<400> 11857

tcattgctct gctattgatc tatcaaggaa tccagtctct catgaccgaa ttaagcacat 60  
tgagactaaa tttcattttc tgagagatca agtggctaaa ggaaagggtta agctagtgc 120  
ttgtataatt gaggttcagc tagctgacat aaagactaag gctttgaaag ctggcagatt 180  
caatgagctg agaaggaaaa taggagttca aagtttggag gattaagaat ttttgttcaa 240  
taaagtgtgc tgtaatgttc ttgttgtgga ttactgttt ttgaatcaaa ggggggtgtt 300

agggataatt caaaaaacag ctactaattt gttaatagtt gatggcgggtt agttagttga 360  
 cttagcctat atatagacat atgggta 387

<210> 11858  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11858

agctntacag caaatgccac tctactccaa attccttgatg gatatgttaa caaggaaaca 60  
 taagtatatt caccaggaaa acatcgtagt ggaaggaaat tgtagtgttg tgattcaaaa 120  
 gatccttcca cccaaacata aagaccctgg gagtgttaact attccttggt caattggaga 180  
 agtcaccgtg ggaaaggctc ttattgacct gngagccagc attaatttaa tgccactctc 240  
 catgtgcaaa aggttgggag agttggagat catgcccact aggatgactt tacaacttgc 300  
 tgaccgctcc attaccagac catatggatt aattgaagat gttttggtca gaatgaaaca 360  
 ntttatcttc ccggtagact ttgtggtaat ggatatctgt gaagatacta acattcctgt 420  
 aatattggga aggccattca tgttaactgc aagctgcata gttgatatgg 470

<210> 11859  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <400> 11859

atgcaagctg gaaggcaaac tggatgcatt ggttgactgg gtaaccacagc tggccttgaa 60  
 tcagaaatct gtacctgtcg caagggtttg tggtttgtgc tgctatgctg accaccatac 120  
 agacctttgc ccttccatgc agcaacctgg agcaattgag cagcctgaag cttatgctgc 180  
 aaatatttac aatagacctc ctcaacctca gcagcaaaat caaccacggt agagcaatta 240  
 tgacctctcc agcaacagat acaaccctgg atggaggaat caccctaacc tcagatggtc 300  
 cagccctcag caacaacagc agcagcctgc tccttccttc caaaatgcta ctggcccaag 360  
 cagaccatac attcctccac caatccaaca acagcaacaa cctcagaaac aaccaacagt 420  
 tg 422

<210> 11860  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11860

agcttgacaa taaaccgact taggattnta agtattatTT tgctattgga taaaattatt 60  
 ttttaatcac aaattttact ttacaacatg tagattatga aaattaaaat tacaaataat 120  
 agaagtgaag aataagtttt agttcatata ttacagaagg caaattttaa atatatcatt 180  
 catttttata attataaact ttataattat aaaagatgta aaaaattatt catagttaat 240  
 aattaaagta aatccatgtc aaatgacaca tataaagcgt aataattnta tttatattta 300  
 aaattcaaca aaaaaatcat tcatagaaga atatttaa ataaatgaat ataattttta 360  
 aaattggttc aatcaaattg gaaaacttga ctgctgagct atagtggaga tttttttttt 420  
 caattatatn ttttctatct ataaaattta catctaagac cttat 465

<210> 11861  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 11861

tatgggtttta atttcgagca tctcgatata ttattggact caattggaca tccgagttaa 60  
 aatttattgt cgtttgcatt tgctcagagc gttcgttttc cattacgagc gtctcgatat 120  
 attacgagac ttaatcggac atccgagcta aaagtaattg tcgtttgcat ttgctcagag 180  
 ctttcgtttt ccattacgag cgtctcgata tattactgga ctgaattgga tatccgagct 240  
 aaaagggtatt cttgggttga tttgctacga gcttctgtgt tcaattttga gcgtctcgat 300  
 atattacggg acttaatcag acattcttgt aaaatgatat tgctggtaga aatcgctcac 360  
 agcttttgta ttcaatttct agcgtctcga 390

<210> 11862  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11862

agctngaatc agacctcagt gtaaaaagtt atgaccattt gaattttctcg agggcttccg 60  
 tttttcaatt tcgagcgtct cgatatatta ttgcgcctgaa tctgacatcc gtgtgataag 120  
 ttttgaccat ttttaatttgt cgagagcttc cgttggttcaa tttcatacct ctcgatatat 180  
 tatgcgctcg aatcggacct ccgtgtgaaa agttatgaca atttgaattt ctcgcgatct 240  
 tccattgttc aatttcgagc gtctcgatac atgatgcgcc taaatcggac atccgagaga 300  
 agagttacta ccatttgaat tcctcgagag cttctcgtgt tcaatgtcga gcgtctctat 360  
 atattatgct cctga 375

<210> 11863  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 11863  
 agcttcttag tttcagatga tgcagatgag tttgtagtca cctcatgcac tcctctaattg 60  
 actatagcat cttttttggc gctaaactgc tgggagtagg aagccatctt ctcaattaaa 120  
 tttttggctt cagcaggagt catgtctcca agggctccac cagtggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240  
 tgatgggtgag ggcagctggc acatagtttt ttaaactctt cccagtattc atacaggctc 300  
 tctccattga gttgtctaatt acctgagata tccttcttga tgg 343

<210> 11864  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 11864  
 caagcacaga gacatatatt ccaactgatt tatagcagca tatgcttttt tgagtgaaaa 60  
 acaatgcgtc taccggggaa ggagagtctg ctgatgaaat ctcccataac cataaatgag 120  
 attttgatg ttagcatttt gtttctaaat gaccatttag aggaaacact gggttcgaca 180  
 aaaatagaag aaatccactc aaagtgtatc aatctcgac aggttaagtgt ttcacctaata 240  
 ttccgaacca tagatatgtc atgacttgac tttgcaaatt atttctatc aaatcaaaaa 300  
 ttacatgcgt gatcatggat caaataggac ttcccttggg aatgggtttt atattatggg 360



tttt

364

<210> 11865  
<211> 420  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11865

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cctggagatc cctcccagac taacgttgga ggaggcaagg aaggagacgg acacgggtgct 120  
cttcgggggcc gtcgacgagc tcttgagaa aaccgggtgtt gaagccaaag acattgggat 180  
tcttggtgtg aattggttgc tgttcaatcc cacaccatct ctctctgact ccattgtcaa 240  
ccggtacaag cttagaggga acattttggc ctataatctt agtggcatgg ggtgcagtgc 300  
tgggggttctt gctgttgact ntgccaaaca gtcctacag gttctctctc accatcatgc 360  
taataaatta gtattccatg catttntgta ttgttttact gccatcacat atatatcttc 420

<210> 11866  
<211> 460  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11866

agcttcattg acttttcata tagtatnttt ttatataaat aagtatcggt tagaaaactg 60  
tgtaatttcc ccccaaaagc aacatttttc aatgctgtgt catatttttt aatatttctt 120  
tacgtagtta tattttaaagc agtattttat agaaacaata aggagatctt tttaaaaaaa 180  
aagttatata tattggaata aatgcatgtg cattttttta atatgtattc acacatatga 240  
aaacaactaa tggcgatata ataaaaaaaa aaagttgtta gttaaagatta aaaaaacaag 300  
ataattttat agcatgactc cggataaatg aaatgagtct cgctaggggt atgaattgga 360  
ttatcaatta ttaaaagaga atcgcattta caagtaaaaa ataaaataga attgtatatg 420  
ggaaacactt acatatatct cttttttata catatatatt 460

<210> 11867  
<211> 405

<212> DNA  
 <213> Glycine max  
 <400> 11867

tgtaatttct gatcctcaga taacatatgt ggttaagggtt gggactggaa cgagtcacca 60  
 atggccttct tgaggaaaga gacatgaaag accggatgag ttttactgtg agatggaaga 120  
 tctaacttat aagcaacaac acccacctta tttaacacct ggaaaggacc ataaaatcga 180  
 ggggagagtt tttcattaat ccttttagcc aaggatcttc tcttgtaagg ttgcatcttc 240  
 aagaacaccc aatcacogac tgtgtattct atgtcctgac gacgtttgtt ggcatttgct 300  
 cgcatgatat cttgagactt caacaaattt ctcttagagt agccataatt atcctaacca 360  
 ttggtagtgt attgacttct tcatgcggga ggaatgggga tccct 405

<210> 11868  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <400> 11868

agcttacaaa tctatcttaa gtccaagccc atacacgaaa taaaataaaa tctagacaag 60  
 ataagataag attggatgaa ataaaatcgg gataaaataa aatctagatg aaataaaatc 120  
 tagataagat aagatttgat aaaataaaat tgtctgctct cttcaagtcc aagcccaatt 180  
 ctggattcaa gctcaattgc ttataattct cctgaaatta aattaaaaac acaaaatttg 240  
 ttaagtaggc ccaaagata aaactgcata attaatattga caattaaggc taatcagtaa 300  
 ttaaaatggt gacaaaaaag gttaagaaat aggagaaaat aatgacacat caagtgcaaa 360  
 ctatggatct ttcaccagtg gcaat 385

<210> 11869  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <400> 11869

tgtgactgtt agagttatca tctctctcgc tatctctcag aagtggcctc ttcaacaact 60  
 atgttaacaa tgccttcott aatagcactc atgaagagga agtatacatg tcacagcacc 120  
 tgggtttgtg ttttctaaca agcagcaagt tttgcaagtt acacaaggcc atctatggtc 180

taaaacaggc cactagagcc tggtttgaca aactcaaaac tacccttctc agttttaagt 240  
 gtttccagca aatctgatcc ttactattg gtgttttctg ataatgctgt tgttgtatat 300  
 attcttgtct atgtagatga tataatcatc actggaaaca acaccaagtt gattaattct 360  
 tctgtacgtc tgctaaattt tgtatttttc tcttaaagaa cttggtgact tggacta 417

<210> 11870  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11870

tgaactttta aagcgtaaag ttacgttact gtgtatttta ttaagattaa tccttttagaa 60  
 agcgtaaaca tgttgttgtg cttgaattat ttattaaaat taattgtatg tttatttttg 120  
 tatttaagca tacaatatta agctaaacta aataatttat gcatattaaa tttaatgggt 180  
 aagagtttat atgtttcaaa tattagataa tcatatgcat ataattttta tttatttttg 240  
 aagttttgtg tgtatgattt atgattttat acatgcgana ttatcttgaa tattttatac 300  
 aatattattt gggttattta cattatgtaa aatattatat gaatatttaa ctctattaa 360  
 gaatgaatgg taagtgatta atataatttt at 392

<210> 11871  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <400> 11871

agcttagtgc caccggtgat gtttctttta acgatccaac caaataccgc agtcttgag 60  
 gggctcttca atatcttact ttactcaga ctgatatac ttatgccgtg cagcaaaatt 120  
 gtcttcatat gcatgctccg acaaatgagc atatgagtgc tctcaagcgt atcatatgct 180  
 accttcaggg tactttatcc catgggttgc atttgtaaa atccaccatt gatagactaa 240  
 tctcttatac agatgctgat tgggtgtgggt gtcctgacac ccatcgttcc a 291

<210> 11872  
 <211> 390  
 <212> DNA

<213> Glycine max

<400> 11872

tgctcgcgct aagcgcatag acccttgatt gggtggcaag atagttcagc tgagtgcaca 60  
tactgtgct aagccccgca tctttacggt aattgaactt taaccagtgg gcttagcatg 120  
gatgatgcac taagcgccac ttcttcttga gaaaaattta tcgtagcaac gctaagcgca 180  
ctatcctgcg ctaagcccta gatccattct gtaacttgag tttttaagct gggcttagcg 240  
ggccagattg aaggtgtaga ctttgatgaa acgtttgccc cggttgctag acttgagtcc 300  
atcagattgt tacttggtgt agcttgcatc ctcaaattca agctgtacca aatggatgtg 360  
aagagcgcgt ttctgaatgg atacctgaat 390

<210> 11873

<211> 404

<212> DNA

<213> Glycine max

<400> 11873

tggaggcatt acctttatgg atctaaatta gatgtgttta gtgaccataa gagccttaga 60  
tatttgtttg atcaaaaaga gcttaacatg aggcagagga gatgggttaga gttccttaag 120  
gattatgatt ttgagcttag ctatcatcca ggtaaagcca atgtagtagc tgacgcctta 180  
agtagaaaat cccttcaaat gtctgctttg atgggttaaag agttggacct cttagagcag 240  
tttagagaca tgagtttggc atgtgagatc acctctagta gcattaagtt gggtatgttg 300  
agagtcacca gcgaactttt gagcgagatc cgtgagggtc aaaagtttga ccgattcttg 360  
tcagcccacg tagaatccat agtcgcaggg agagagagta gttt 404

<210> 11874

<211> 416

<212> DNA

<213> Glycine max

<400> 11874

tgtacaatgt aaccttatac attgtaaaaa tcatgttcta atgcaattct aattcctact 60  
aaacttatag tatacaataa catacatata attgaaattt taaattaact acttgaatta 120  
aattctcatt gtaattaatt ttcaatgtca atttatatatt taaaaattgc acaacacaaa 180

actttctata atgagttgta atttccaagg tattacatta gtcattacaa attatgttta 240  
 ttttgccttt tgtaacattt ttttaactat taagaaaata tgggttattat ataaaaaaat 300  
 atagatattt gtatcttttg aatattttat acgtcagaca caaaactgtc ctataattta 360  
 tcgagtaaaa agaaaataag ctttattcta ttgatttttt atctcatata tttttt 416

<210> 11875  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 11875

ttatcacata aaattacatg ttattaaata ttttaattaat tacttaagtt aaatgttatt 60  
 gtaattaatt tcaatattaa ttatatctcc acatatcaca caagtacaaa actttatata 120  
 aaataagtta taaattttat ttatgatgtt accagcaaga ctatccgatg acctgtgatc 180  
 cattgaattg tcaactagga caaaaataat acacagacaa ttatgtgagc aacatatatg 240  
 acatcttaga atcatcaata tgagatataa gttgacatat tcaagtgtaa atattatgag 300  
 taatattata ctagaccaac tcaactgtgag aagacttcaa aatagttaag taaatgtcat 360  
 gataagtgtc tcttatgata attatattat gtgataacta catcatatat g 411

<210> 11876  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11876

tctaatatct cccacacttt ntgggggtggg ccattcttgg atggccttga ttttcttagg 60  
 gtccacttgg accccatttc taccaactac aaaacctaag aagactatat tatctacaca 120  
 aaaggtacac ttctctatat ttgcatagag ggtgtttttc ctaaggactg aaagaacttg 180  
 cctgagatgt ccgaagtgat catctaggct cctactctac actaaaatat catcaaaaata 240  
 aacaactaca aatctaccta tgaaatccct taagacatga tgcataagcc tcataaaggt 300  
 gcttggtgca ttagtgagcc caaaaggcat cactagccat tcatacaaac caaacttggt 360  
 cttgaaagcg ggtttccact catcaccctt tttc 394

<210> 11877  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11877

agcttcaatt gtgacgggtg tatatccacc actcaattat ttcatagaagg ttagaaaaaa 60  
 attacatagt tgaatcaaca tcattaccaa tgtgattaga atgataaaaa aacctaacaa 120  
 atgaaatcca acacatcaca tgataattag aaaaatgcaa taacaataaa gaataggaat 180  
 attataaatt agatatacat aaattaatat tatgtacaga gcaaaaatgt ccaacaatt 240  
 taacaacatt tttgttgatc cataaaatat cataatttgt gcctaaatcg gaaccaatct 300  
 agatccaagt gtgattttaa aaccataatt cttaaaaaga ataaattatt ctacattgtg 360  
 aaacatattc aatgatctag cacacaaata cattgcaacc ataataaaat aatgttagct 420  
 atcaacaata aaaactcaaa acanaaaaat atgtc 455

<210> 11878  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <400> 11878

tattggagca ctaccaatat gctatattgg ttatgagaat ggtggccagc taactgaagt 60  
 tgttctttat cgcccgctt ctttatttct ctttgacgag gttgaaaagg ctcatgaaga 120  
 tgttttcaaa gtgtttcttt agattttgga tcatggtaga ctgacaaatt gcctatgaaa 180  
 agttgtggac ttcaagaaaa ctattattat aataacttta aatattggat ttggtacta 240  
 gtccaatgat atacagagta agataccaca agtggaaatg acaagcagac ccaagaggaa 300  
 aaatatcaac accaaaagtat ttagcatatt ataattgatt tatgtcttgt attaagagta 360  
 tgaataatta aggtctatgg agacata 387

<210> 11879  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <400> 11879

gcttgaggcc ttggatcttc ttcacatg gagtcttttg cttcttgaag atcaatggca 60  
gcaaaatgga gaaggaagaa agatgattgg agacgccact tcaaggagaa gatgagtcaa 120  
gaacaagctt accaccatag gaagcaatgg ataagagctt gaaggtagga gaagataagt 180  
ggagggagaa gaagaaaaag agcacagaat tttatgcctc aaatgaggtc taaactttga 240  
agtgtaatc tcaaagatc aaagttgaaa aaatgcatac acaaggcctc tatttatagc 300  
ctaagtgtaa tacaaaatta gaggaaaatt tgaatttcta ttcaaatttc acttg 355

<210> 11880  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11880

tgtaattatg gttgatccag tatttggata taagagtatc agtatatgaa ttgggttttag 60  
cccaggttca taacaaattt aaaaaattta tactcgattt ataaaattaa caagagattt 120  
taatttcaag ttctagttat aaaattacat taaatattta aagaaaaaat taatcaccta 180  
taatgattat ataaaactcg agtatgggtc acaaaaacaa aatgaaacat tgtcttttaa 240  
gtctaagttt atattttttt gttaactntg tatttttaac atttgagaca tagaactgta 300  
cgtactagca agcagcggca cgttgagtaa gtctaggaat acacgtgaga tccaataaat 360  
agaaattaaa aaatatttgg aaaacattaa atttaaaggt tatttatata taata 415

<210> 11881  
<211> 260  
<212> DNA  
<213> Glycine max  
<400> 11881

agcttgtctc cctgttcttg attattgtag agaaacatag ggagccaaat gtcttcagat 60  
ttgttagctt tggttttag tagtgccatg cttcaaatgg agtctttttc tgcaaagctt 120  
ttgttggtaa cctattcagc aaaaaactgt tgtgtgtgca gcctctgccc aaaattcctt 180  
tggtagccct ttgtcatgaa gtaagcacct tgtcatctcc ataattgttc ggtttttccct 240  
ctcgacaaca ccattctggt 260

<210> 11882  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11882  
  
 agcttaccac aattcgtacc cttctatctg nggctgctat taaggactgg cacttagaac 60  
 aacttgacgt caacaatgct ttccttcatt gtgatctgca tgaggaagta tatatggatc 120  
 tgcctcctgg gttcttgagg cctgggttctt cttctaataa agtctgcaaa ttacataagt 180  
 ccttatatgg actgaaacaa gctagcagac agtgggttctc caagttatcc actgctctta 240  
 tctcccttgg atac 254

<210> 11883  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11883  
  
 agcttataat atattttatac gctcgaaatt aaacatcgaa aactctcggg aaattcaaatt 60  
 agtcataatt attcacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 120  
 ttgaacaacg gaagctcttg agaaattcaa ctggtataac ttttcacacg gatgtccgat 180  
 tgaggcaaatt cacatatcga gacgctcaaa attgaacaac ggaagctcct gagaaattca 240  
 aatgggc 247

<210> 11884  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11884  
  
 agcttgacca tgatttttag aataatattc tctgatgctg accaggcact ttttgatgaa 60  
 tgcttgaaga gattccaaga agaagaaatc aatgataggg agaagcaaga gaagcgagaa 120  
 tccatatgga aacaactgga agatgttgct gcagctaatt ctgtaagcaa tgaggccatc 180  
 cttgtctcaa gatttggtgc ctctgttgca attgctacca gtgctaataa attggcaact 240  
 gcagggtggtt gagagccatc a 261



<210> 11885  
 <211> 192  
 <212> DNA  
 <213> Glycine max

<400> 11885

agcaccaacc tgacagcggg ctggatctcc ctggatgtaa tggtcgggctt cttgttatac 60  
 ctgcgcgagac gcgctgcttc ctgcgcgaagc ttctcgaata tatcgttgat gaagctgttc 120  
 atgatcccca tggccttgct cgaaatgccg atgtcaggat gtacctgctt cagcaccttg 180  
 aatatgtaga tc 192

<210> 11886  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 11886

acctgacatc acctttgcag taggtgtttg tgcaagatat caagccaacc ctaagataag 60  
 tcacttgaat caagaaaaga gaattctgaa atatgtaaat ggcaccagag actatgggat 120  
 tatgtactgt cattgatcat attcaatgct gggtgggtat tgtgatgctg attgggctgg 180  
 aagtgcagat gacagaaaaa gcacttctgg tggatgtttc tatt 224

<210> 11887  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 11887

acactttttg gggtagggca ttcttggatg gccttgaatt tctcaaggct cacttggacc 60  
 ccatttctac caactacaaa acctagaag actatattat ctacacaaat ggtatacttc 120  
 tctatatttg catagagggt gtttttctta aggactgaaa gaacttgctt gagatgtcct 180  
 aagtgatcat ctaggtcctt actgtacact aaaatatcat caaaataa 228

<210> 11888  
 <211> 190  
 <212> DNA  
 <213> Glycine max



<213> Glycine max

<223> unsure at all n locations

<400> 11891

cctctcttag ctntgcaatc atagaaggga ggagcatgga agcacggctc catcgacatg 60  
gcacgttgac aaggaggatc angagctggt ccattctcgg gcttgtacag tatccacggt 120  
ttcaaccctt caagcccctg agctacgtag ccganagtag accatgagct cgtgaccaac 180  
atgtcgggtca agctc 195

<210> 11892

<211> 250

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11892

agcttcttgt gggatatattt gactagctnt ccaatctgac attcaccaca gattctgcct 60  
tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120  
cctcttaagt gcagatgtcc aaatctttga tgccatatat tgacttcac cttctttggag 180  
actagacatg tggaggagta actggtttct tgagggtgcc ataggtaaca gttgtccttt 240  
gatctgctgc 250

<210> 11893

<211> 296

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11893

gatgcatggg agaatcctga aatcactcat gaaggaacct ccacagtga gatgtccaga 60  
atgcaactct tggctacaaa attcgaanat ctgaagatga aggaggaaga gtgtattcat 120  
gacttcacac tgaacattct tgannatgcc aatgcttgca ctgccttgng agagaggata 180  
acagatgaaa agctggtgag aaagatcctc agatccttgc ctaagagatn tgacatgaga 240  
gtcactgcaa tagaggaggc ccaagacatt ngcaacatga gagtagatga actcat 296

<210> 11894

<211> 294

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11894

ttctacactt ggagtgataa catgcagtc tcttgaactc ttaatgcaca ctctgtcatc 60  
 atggcgagac tcacgaaggc caacacgttt agccttttca atgtactctg gacaaaattc 120  
 aatggcttct tctgcaatgt acctttcaac aatagatggt tccggatgat gtaaattctt 180  
 ggtataccct gttaagatct tcatgtatcg ctcaaccggg tacatccact gcanataaac 240  
 aggaccacaa catangtatt ctctgaccac atgaacaatt aagtgaatca tgat 294

<210> 11895  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <400> 11895

agccattctc ctttaactgc acaaggctct taatatTTaa agagtatcct tgtggaacct 60  
 tcaccagcgc aagacactga aaaaaaaact tatcttctcc tttttggaaa aagtatgaca 120  
 agctgggggc aagtaaattt tcttcccatt agaccttggg tgcagctgtg atcgtgtccc 180  
 catctcagct agatcttgac ggggtattcaa gccatccttc gtcttgccct gaatgttaag 240  
 gagtgtccca 250

<210> 11896  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11896

atgctectct gcagaccacc acacagacct tngcccttct gtgcaacaat ctgaagcaat 60  
 tgaacagctn gaagcttatg ctgcanacat ctacaataga cctcctcaac ctcagcagca 120  
 taatcagcca caacagaaca attatgacct ctccaacaac aggtacaatc tctgggtggag 180  
 gaatcatncn aaacagcagc aacaacaatc tt 212

<210> 11897  
 <211> 327

<212> DNA  
<213> Glycine max

<400> 11897

agcttctaaa ctttatacat tattgaagct ctgataccac ttgttggaca agtggcctca 60  
gatatcttaa aaaggggggg ttgaattaag atatcacaac ttatttcccc aattaaaaat 120  
tctagttatc tttctattcc agttataaat tcccttaata atgaatttct taaatattga 180  
ttcaaatata acaatttgaa tataaatata aaacaataat aaataaagga gtttaaggga 240  
agagaaaatg caaactcaga tttatactgg ttcggccaca cccttgtgcc tacgtccagt 300  
ccccaagcaa cccccttgag agttcca 327

<210> 11898

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11898

tctaategat tacacacata ctgtaatcga ttaccagagg agtttttcag aaaacattct 60  
caacagtcac attntnttat ctgtttctta aatggtcac aaaggcttat atatatgtga 120  
cttgagacac gaatttaaca agagttttca agagcaaaaa ggtcttatcc tcttaaaaag 180  
cagaatagtt ttatcctctt acaaattcct tggccaatac acttgtgatt caataaagaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tctctcttg 300  
anaagggtatt aagagaccga gggctctctg ttgtgaaaga attctaaaca c 351

<210> 11899

<211> 328

<212> DNA

<213> Glycine max

<400> 11899

tagcttctac agaagggttg ttcttaattt ctctacactt gcctcacctc tcaatgagct 60  
ggagaagaag aatatggcat tcaattgggg tgaaagacaa gagcaagtct tttctttgct 120  
caaagaaaag ctcacccttg cccctgatct aactcttcct aacttttcta aaacttttga 180  
gctataatgt gatgcctcta aagtgggtgt gtgagttgaa ttgttgcaag gtggacacct 240

tattttcttat tttagtga aaattcatgg tgccaccctc aactaccca cttatgataa 300  
agagctttat gcctataata agagccct 328

<210> 11900  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 11900

agctttcact cgcatgttcg attcaagcgc atagcgtatc gagacgctat aaatctaaca 60  
aaggaagctc tcgagaaatt caaatggtca tagcttttca ctcgcatgtc cgattcaggc 120  
gcataacata tcgagacgct ctaaattgaa caacatattt tttcgagaaa ttcaaattgg 180  
cataactttt cactcggatg tccgattcac gcgcatagcg tattgagacg ctcgaaattg 240  
aacaacggat tttgttgaga aatccaaatg gtcgtaactt ttcactcgca tgtccgattc 300  
acgcgcataa catatgtaga cg 322

<210> 11901  
<211> 245  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11901

tgccettgcc ctngatatat ntgagggact catggtcact atgaatgaca aattcctcgg 60  
gataaaggta gtgttgccat gttttcaaag cccgtactaa tgcatacaac tccttatcat 120  
aagttgaata gttaagggtg ggaccactta acttttctact aaaataagca attggatggc 180  
cttcttgcat caacacagcc ccaatcccaa catntgaagc atcacactca tattcaaaag 240  
atttt 245

<210> 11902  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 11902

agcttggtact tgctgtgttt ttggaacctc tccttctca ggtggaccca aaccaatca 60  
cctgggtcaa gcacgacttt ctttctgctt ttgttggtt gccttgcata gctcgcattt 120

ttcttttcaa tttgaacctt cacttgctca tgcaacttct tcacatactc agcttttagcc 180  
 tgtgcatcct tatgcttaaa cataccaatg ttaggcatag gcaacaaatc aagaggagtc 240  
 aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300  
 cgattataag caaactcaac atgagg 326

<210> 11903  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11903

agcttaaaca ttcaacttcg ttcgtttcga tatattatgg gactcagtca gacatccgag 60  
 taaaaagtta ttgtggtag aattcgact gaggttcaac attcaatttc gagcgtctcg 120  
 atatatgacg ggactcaatc atacatccga gtaaaaagtt attgtcattc gaattggctc 180  
 agagctttca acattcaatt tcaaacgtct cgatatatga cgggactcaa tcagacatcc 240  
 gagtaaaaag ttattgtcgc ttgaatttgc tcagaggttc tacattcaat ttcgagctta 300  
 tcaatatatt accggacttc atcatacatc 330

<210> 11904  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 11904

agcttggttct tctacaaaac ttttatgaaa caatgacaaa acaaagtgg atgtagaaga 60  
 gtgagtgtct tggtagtag caaaaaaata tgtatcttct tgaaagatga cgtttctaga 120  
 aactcgaatc ctatgtaaat gaggatcata gcatataaaa cctttttgat gggttgagta 180  
 accaagaaaa acacatttaa cagattgagc tgtgggttg gtgtgttcta gtggctaaag 240  
 atgaacatag tagacacaac caaagggtgc aagagtggaa taattaggtg gcttaccaaa 300  
 taaccttaag aaaggggaat cattatttaa ggctt 335

<210> 11905  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 11905

agcttttact cggatgtcct tttagtccc gtcatatatc gagatgctcc aaattgaaaa 60  
tagtagctcc tagcaaattc aaaccataat aactttttac tcggatgtcc gattgtgtcc 120  
cgtagtatat cgtgacgctc gaaattgaaa acataaggctc tgagcaaatt caaacgacaa 180  
taacttttta ctcagatgtc cgattgagtc ccgtagatat atcgagatgc tccaaattga 240  
aaatagtagg ttcttccaaa ttcaaaccat aataacgttt tactcggatg tctgattgag 300  
tcccgtacta tatcgagacg ctcgaaatt 329

<210> 11906

<211> 326

<212> DNA

<213> Glycine max

<400> 11906

agcttgtggg tggaggactc ttgaacgaaa acacaattca tggggctccg aaaaagggtt 60  
gaggatggag aattgcacta agcaatcact acgcacggct ccaagctcca ggggtggagga 120  
cgcatgaacg aaaaagcaat tcatggggct cccaaaaagg gttgaggatg gagaattgca 180  
ctaagcaatc actacaaacg gtcctaaact cgtgggtgaa ggacgcatga acgaaaacgc 240  
cattcatggg gtcctgaaaa aggggttgagg atggagaatt gactaagca atcactacgc 300  
atggctcaa gtcctgggt ggagga 326

<210> 11907

<211> 326

<212> DNA

<213> Glycine max

<400> 11907

agcttgtgca tccaattctc tggtgaggat gtcccatatg ttcttaaaac tggactgatt 60  
catttgcttc caaagtttca tggccttgca ggtgaagacc cgaacaaaca tttgaaagaa 120  
tttcacattg tctgtccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180  
aaggcttttc ctcatcatt aaagggagtg gcaaaggact ggctgtatta ccttgctcca 240  
aagtccatca cgagctggga tgaccttaag agagtattct tagaaaaaaa ttccctgct 300  
tccaggacca cgagcatcat gaagga 326



<210> 11908  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 11908

agcttgagga tgatgtagt tttattcgtc agtgctttga ccttccgcca ccatcctcat 60  
 agatttagat tattattata ttttgTTTTT taagccttgt atttggtat gtttttatga 120  
 catttgaaca cttagtattt cttttaatat ttgcttagta tgattgaaca tgatgataat 180  
 atttacttgc tcttggttgt ttatggttat ggttggttaa ctttaattatt ttgatgatat 240  
 atatgtctag tggtagtac ttacatttgg tattgtgctt tatgtatgta ttagaattat 300  
 ttatgtatga tttattttac acactttgg 329

<210> 11909  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11909

agcttgtagg ccttggtatc tctttatcaa tggattcctt tgcttctttg aagatgaatg 60  
 acagtggaat ggataaggaa gagagagagg agatgccact tcaaggagaa gattagtcta 120  
 gaagaagctc accaccatag gaggccatgg ataagagctt ggaggaagaa ggagatgaat 180  
 gaaggagag gaagagaaca gcacaaaatt ttgtactcta aaagcgctat gaaatctgat 240  
 gtttaattat caaatgatca aagttgaaaa aatgcgcaca caagacttct atttatagcc 300  
 taagtgtcac acaaaattgg aaggaaattt 330

<210> 11910  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 11910

agcttatgct gcaaacatct tttacagacc tcctcaacct cagcagcaaa atcagccaca 60  
 acagaacaat tatgacctct ctagcaatag gtacaatctc gggaggagga atcatcccaa 120  
 ccttattttc aaaatgatgc tggccaagc agaccatacg ttctccacc aatccagcag 180

caacaacaac aacaacccca gaaataccaa acagttgagg cccctccgca accttccctt 240  
aaagaacttg tgaggcaa at gactatgcaa aacatgcagt ttcaacaaga gaccagagcc 300  
tccattcaga gcttaactaa tcagatggga caatt 335

<210> 11911  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 11911

agctttggag ttaccaagtg tcatttcgtc ttcttctttt gaccagtctt cttctggctt 60  
caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagctttc caagttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180  
gtattcatag ttggttccat ccagaattgg tggctgtgtc actggctctc cttctttctc 240  
catgttcac atc agaatttctc tccctagatc tcaactcagt atttcgagt cccgctctga 300  
taccaattga aattctgata ctggggacag at 332

<210> 11912  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 11912

atacagtaga ccgacctgc tggcatgcta gcttgatagg aaaatttctt tgggaaattc 60  
actagtatct tggaattaca agaaacaagc ttgtgtagca ctatccacta caacagcaaa 120  
atacattgaa attggaagtt gatgtgctaa atgtctctat atgaaacaac aacttggaga 180  
cattgcggtg acccttgatc ccattcctct aaaatgtgac aacataagt ctattaatct 240  
gtctaaaaa at cgggtcatgc attcttgaac taaacatata tagattagac atcattttct 300  
aataaatcat gtataaaaag gagattgatg cattgagtgt gctgatagtg aaca 354

<210> 11913  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 11913

agcttatgca gcaaaagtgc ttacatgagt gtgtgtttgt gccatacttt ttatcagaca 60  
 acccgtagta gtttgcaccg tactttcatg tcgtactttc tgttcgaccc caataacgtg 120  
 tcaaagttgt tgagcaagct tagcgtggcg cagtgtctaca acaccatcaa gtcgttggcg 180  
 tatgagacgg aggtgcgttt gcgcgacccc atgtatggct gcgtgggctt catcttgctc 240  
 ttgcaacaat gactatgcga aatcacaaca aaggtacaca acgcgaagga gttatcaacc 300  
 tacctcaacc ctaggccatg caggttcttt ta 332

<210> 11914  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<400> 11914

tcgtctcgat atattacagg tctcaatctt acatctgttt gaaaaaagtt attgtccgtt 60  
 ggaattgctg agagcttcaa cattcaattt tgagcgtctc gatgtattac aggacttaat 120  
 cagacattcg agttaaaagt tattgttgtt tgaatttgcg gagagcttca acattcaatt 180  
 ccaagcgtct cgatatttta cgggactcaa tcagacatcc gagataa 227

<210> 11915  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 11915

tgattgagtc ccgaaatcta ttgagacgct cgatattgaa tattgaagct gagagctaata 60  
 tcaaacgaca ataacgtttt actcgatgt ctgattgagt cccgtaatac atcgagacgc 120  
 tcgaaattga atgttgaagc tctcagcaaa ttcgaacgac aataactttt tacctcagat 180  
 gtctgattga gacccgtcat atatcgagat gatcgatatt gaatgctcga actctgagca 240  
 aattcaaacg acaataatga tttgctcgga tgtttgatag agtcccgtaa taca 294

<210> 11916  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 11916

agctttatca aatgtggcat ttgaggtaat taatgatata aacttttatt atttgagcag 60  
agatttcgat ggacaaatta cacacagaaa atatgatttt gctaattatg ttaaattctt 120  
aatttgaagg gactgctaac cgaaggtttc ctttggatcc cctctttggg tggtcctact 180  
accattgctg ctagacaaaag tggagctgga atttcttggc tttttccatt tgtggtgaaga 240  
aagatatctt ttgcttcata gttgaaataa taagttgtag ttgggctttt tcccccta 300  
cctgtgagtc attatgatct ttcg 324

<210> 11917  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 11917

agcttgaagg caaactgggtt ttattgggtta acttggtaac ccagctggcc ttgaatcaca 60  
aatctgtacc tgtcgcaagg gtttgtggtt tgtgctctc tgetgaccac catacagacc 120  
tttgcccttc catgcatcaa cctggagcaa ttaagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240  
tttcagcaa catatacaac cctggatgga ggaatcacc taacctcaga tggtcagcc 300  
ctcagcaaca acaacagcat cctgc 325

<210> 11918  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 11918

tagcttgtgc ctatacacgt atgttatgtg aatgtagcat ataaatcgcg aataccctta 60  
tgtgctttga tgatggctat ttcccgtcc tagcttcaat tggagttatg tcttttacag 120  
acttagtagt acatctgttg agtatgtaaa cagaagtgtg tactgcttca acccagaatg 180  
tgttaggtag tcccttatcc ttgagcatcg atctaaccat tcctataact gtgcgattct 240  
ttttattgga cactccattt tgttgaggag aataagcgac tgtaagtagg cgctcaaaac 300  
ctttattctc acaaaatctt tc 322

<210> 11919  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 11919

agctttacatg aaacttccta ttgttatgtc ctcaccgtta cctaattattg tttgcaagct 60  
 aaaacgttct ttgtatggat taaaacatgc accaagagtg tggtttgaaa agtttagcac 120  
 aacactactt ggcttttcct tcatccaaag tagctatgat ccattctttat tcctataaaag 180  
 gacctcaaaa ggaattatga ccttccttgt ttatgtagat gacattatcg tcactagctc 240  
 agatcaagag gctatcacta caatcaagca attgttgcac acaactttca acatgaaaga 300  
 tcttggacaa ctcacttatt tcttgggatt a 331

<210> 11920  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 11920

agcttggcga cactttttta agattgaatc ctataatgaa ggaggaagta agaaaagaag 60  
 tgctcaagtt attagaggca ggccttatct atccaatttc agacagctca tgggttagtc 120  
 ctgttcaagt tgttccaaaa aaaggaggga tgacagtaat aagaaattat tgaaatgaac 180  
 taattcctac cagaacagtc ataggatgga gaatgtgcat tgattataga aagcttaatg 240  
 aagccacaag aaaagatcac taccacttc ccttaatgga tcaaagctt gagagacttg 300  
 cagggaatc tttctactgt tttt 324

<210> 11921  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 11921

agctttgcta cgataaccac ttggactgga ctcacccact ggctgtcaga aatggggtaa 60  
 atgattccag cttgtaagag cttggtcacc tcctttttca ccacatccag aatgacgggg 120  
 tggagttgcc actgaggttg cctcactggc ttatctccat cctttaaaag tatectatgc 180  
 atgcaggtag atggtctaata accaggaatg tgtgctaaaag tccatccaat ggctttcttg 240

agaactagcc acaacttctc ctcttgetca gcatcaaggg aggcatagat gatcactgga 300  
aatttttctt tgtcctccaa g 321

<210> 11922  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 11922

agcttgtagc ctataatgat tatgattggg ctcaaatga tgatgatcaa agaagtatta 60  
atggatttga gtttttaagg gggaatccaa ccttcctgga atgaaaaag cctcaatttc 120  
ctttttactc gtgaggggca aaacccttaa aagtaacatt aggccttcgt cctgtaatcc 180  
ggcttagaga attgtaaaaa gagtgggaca tgtcacaaga cgatcagacc atcacctttg 240  
gggataataa gtcaaccatt gctctagtaa acaacctcgc gttccgtgat cgaagcaaac 300  
atattggcac tcgttaccac tacata 326

<210> 11923  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 11923

agctttgatc ccaaagaagc ttgccatgac cattatcttc aagcccatca cttttcccaa 60  
cacacaaaca aaaggggtata gaagaaccaa aactatgggt cttataagcc cccctgcctc 120  
aaaggccacg agcatgaaat atgggaacaa agaagaggat ttcaacaacg cgttttcgac 180  
ataaaagatc aacgtgtgat cgttgaggtc tgatcgggtg attaaagagg ggaatttcag 240  
gtatttggtt aactgtgttg gtgcacccga aaaagaattg ctaatgggtc tgtggaaacg 300  
gacgagggtc ctgagttgcc taaagagaaa 330

<210> 11924  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11924

aagctttcttg aagccgttct cataactggc aaccgaatga atgatggaac tntccgcggt 60  
 ggtgcacaag cattttaaact tgatacactt ctgaaattat ctgatgtaaa aggaacagat 120  
 ggcaagacta cactcttaca ttntgttggt ctagagaata tccgctccga gggcataaaa 180  
 gccatcagaa aggcaaaaga gagccagaaa tcgtctagta ttaaattgga tgaccttcac 240  
 gatagtaccc gagaaacaga agatcgctac catgaaatcg gtcttcatgt ggtttcacga 300  
 ttgagcagtg aacttgagaa tgtaaaaaaa gcagcaatta tatatgctga cagcttaaca 360  
 ggaactact 369

<210> 11925  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 11925  
 agcttctcag atgtcattgg tatcattgac cttgtggcag caagattgcg tctgtcctc 60  
 ccttgccctcc gaacaccatc tccatgttct tccccagaaa caagcttatt ctttcttggt 120  
 ggcaatacca tattagacac cttttgaaca ttttgtccag atttctggtc tatctcttct 180  
 gctttcctac ccttttcttt tggtttaaca tcagccaccc ctgactcttc actttcagat 240  
 aaggcagctg aagatgaagg atcacctttt agtttaattt gctgaggaga actgccagcc 300  
 aagcgtctgg caaattctaa cccaag 326

<210> 11926  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 11926  
 agcttatgac cattttaatt tttttttagt ttccattggt caataaccaa tgtctcgata 60  
 tattatgcac ctgaatcgga aatccaagtg aaaagttatg accatttgaa tttctcgagg 120  
 gattttgttg atcaattttc agacgtctcc atatatggtg tgccatgaatc ggaccttcgt 180  
 gtgataactt atgaccatct gaatttcttg agagatttcg ttgttcaatt tctagcgtct 240  
 cgataaagga tgcgcctgaa tcggacatcc aagtgaaaag ttatgaccat ttgaattgct 300  
 cgtcagcttc cgttggtcaa tctccagc 328

<210> 11927  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11927

tagcttcaca aaagtttata ttgcttgaaa caagcaccgt tgcagtgggtg caagaagttt 60  
 aatgagttaa tgagcaactc gggattcaaa agatgtgaca tggaccattg ctgctatgtt 120  
 aagaaatata ctaatagtta tgttatcttt gtcgtgtatg ttgatgacat gttgactgtg 180  
 ggatctagta tggcnnaaat taacaagtcg aagcatcagt tggcagaaaa ctttgaaatg 240  
 aaggatcttg gtccagctaa acaaatcctt ggtatgagaa ttcttagaaa cagatcataa 300  
 cgaatcttgt agctgtctca cgagaaat 328

<210> 11928  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11928

tagttcaagt ggcactcttg tgcacacaat atctttcggg ccacaggccc aaaatgtctg 60  
 atgttgtacg catgcttgaa ggtgatgggc ttgcagagaa atgggaagcc tcacaaagtg 120  
 ctgacactac caagtgcaaa ccacaagaac tctcttcacg agataggtat tctgacctca 180  
 ttgatgactc ttctttgtta gtccaagcca tggaaactctc aggccctatg atgtgaacct 240  
 tacgngcgg atcgc 255

<210> 11929  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 11929

agcttcaaca tcaggattct tttaatggct atggcggata tcaccatgac cgtaattaa 60  
 gaaaaaatt atatttaagc atctaattaa agtaattatt tttaggata taataagaac 120  
 atttatctat aatgcaccta attaaagtaa ttatctttag agatcatatt ataatatata 180



tctataatgt gtctaattaa aataattatc tttagagatc atattaaaat atatatctat 240  
 agtgtgccta attaaaaataa ttgcatttag aagatctata aatagttgga gtttgaactc 300  
 tcgggattcg aaattcatta tacattttac 330

<210> 11930  
 <211> 196  
 <212> DNA  
 <213> Glycine max  
 <400> 11930

atctcaagac taactatgac aggatttttc ttgaagaaat agctcaagcg gcactctggt 60  
 gcacacaata tcttccgggc cacaggccca atatgactga tgttgtagcg atgcttgaag 120  
 gtgatgggct tgcagagaaa tgggaagcct cacaaagtgc tgacactacc aagtgcaaac 180  
 cacaagaact ctcttc 196

<210> 11931  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <400> 11931

agctttccat tctcttggga gttcatcatt ggatttgact tcttctggag gatcttcatt 60  
 gattcctttg tcatttcctt tggaatcttg ttcataatggt ctaaagaatc 120  
 tgcagtgtca tctagcatat tctttcttga caatatatca ttagattcat caaaggtaac 180  
 atgaatggat tcctcgatat acatagttct tttattatat atcatatatg ctttgctttg 240  
 taatgaatat ccaagaaaaa taccttcac agattttgca tcaaattttc ctagattatc 300  
 tttaccatta ttaagcacia agcacttgc 329

<210> 11932  
 <211> 295  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11932

gcgcctgaat cggactgtgc tttgagaaga tatgaccatt tgaatntctc cagagctttc 60  
 gttgttcaat ttctagcgtc ccaatatatt atgcgcctga atcggaactt cgtctgacaa 120

gttattacca tttgaatttc tcgagagcat atgttggttca atttcgagcg actcgatata 180  
 ttatacacct gaatcgggca tccgtgtgac aagatatgac catttgaatt tcttcagagc 240  
 tttctatggt aatttcgagc gtgctcaata tattatgcgc ctgaatcgga ctttc 295

<210> 11933  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11933

agcttctcga tatattatgc acctgaatca gacttccgtn tgataagttg tgaccatttg 60  
 aatttctgga gagattccgt tgtgcaattn tgagcgtctc gatataattat gcgcctgaat 120  
 tggacttccg tgtgattagt tatgaccatt tgaatttctc gagagcttcc ggtgttcaat 180  
 ttccagcgtc tcggtatata atgcgtcaga atcggacttc cgtgtgacaa gttatgacca 240  
 tttgaatttc tcgagagctt tcgttgctaa atttcaagcg tcttgaatat aatgctcctg 300  
 aatcagactt ccgtatgaga agtgatgacc atttgaatct ctcgagagct tccgtggatc 360  
 aatttcaagc tgctcgaata tgatgccctg tatccgactc cctgtgaaag ttataacctt 420  
 taattcccaa agcgcgtttg ttaata 446

<210> 11934  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 11934

agctcgggaat gtagtcatac cacacaaaat atatatatgt atgttgaggt agaaagataa 60  
 cttagatatg catgtatgta aacaaaaaca cacttcacaa aatatatata tatgtatgtt 120  
 taggtagcaa gatacccttag atatgcatgt atgtagcaaa aagatacctc acaaaatata 180  
 tatatatatg tatggtagca agataccttg gatatgcatg tatgtagcaa aaagatacct 240  
 cacaaaatat atatatgtat gtttaggtag caagatacct tggatatgca tgtatatagc 300  
 agaaatacct cacaaaaata tacacatggt taggtagcaa aatacctcat gaaaaaaaaa 360  
 aaaagcaaac tagagaaaga aatacacaaa tgataatgat caaaaaaaaa 409

<210> 11935  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11935

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 aagggtggggg ggttgaatta agatattgca aactatttcc ccaattaaaa ttctatttta 120  
 atttcaatgc aagttccaag ttcccttaaa aatgaacttt taaatgatga ttcaaactaa 180  
 acaatctaaa tacaaatgta aagcaataat aaataacaga gtttaaggga agagaaagtg 240  
 caaactaaag caatctaaat acaaagttaa agcaataaat ccctaagcaa cccgcttgag 300  
 agtttcacta tcttgtaaaa tccttttaca agttctgaac cacacaagga caaatcctcc 360  
 tttgtgttca gatttcttta caacaagaga ccctcagtct ctcaatccct tngagaataa 420  
 gatagaagag aagaataaat ctatctcgaa agagatagat tgtacaactc gagcactcaa 480  
 ttaattcctt attgaat 497

<210> 11936  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11936

aagtcacctg cggcattgcaa gcttagactg agttcagcct accatcctca tactgatggc 60  
 caaactgaac ggaccattca gtcattggag gaccttataa gagcatgtgt cttatagcag 120  
 aagggaagct gggagggttt tcttcattg atagagttca cttataacaa cagttttcat 180  
 tctgccattg gcatggctcc ctatgaagct ttgtatggta gaagggtgtag aacacccta 240  
 tgttggttag agcccgagga aggcctcaca ttaggaccag aagttgtaca acaaaccact 300  
 gagaaagtta agttaattca cgagaggatg acaactgctc agagtaggca gaatagttat 360  
 catgataaga ggaggaaaga tctacaattc gaggttggcg atcatgtatt cttgagagtc 420  
 actccatgga ctggggcttg gtgagcattg aaatcccgac nactcacacc tcgctttatt 480  
 ggtcctttcc agattctta 499

<210> 11937  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11937

agcttatgct gcanacatct acagtagacc tcctcaatct caacagcaaa atcagccaca 60  
 atagaataac tatgacctct ccagcaacaa gtataatccc agatggagga atcatcctaa 120  
 ccttatatgg tcgaatcctt cacaacagca acaacaacaa cagccttatt ttcaaaatgc 180  
 tggtggccca agcagaccat acgttcctcc accaatccag caacaacaac aacaacaaca 240  
 gccccagaaa caacaaatag ttgaggcccc tccacaacct tcccttgaag aacttgtag 300  
 gcaaatagact atgcaaaaca ttcagtttca gcaagagacc agagccttca ttcaaagctt 360  
 aactaatcag atgggacagt tggctacaca gttaaataca caacagtccc acaattctga 420

<210> 11938  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11938

agcttangct gagttctact taccaccac atactaacga ttagaccaag cgcactatca 60  
 aatccttaga ggacctcttg agagcctgtg tcttatagca gcggtgtagt tgggatgggt 120  
 tcttaccctt gatagagttt acatataaca atagttttta ctccagtata ggtatggcac 180  
 cttacgaggc gttgtatggt agaagatgta cgacacctct atggtgggta gatctaagt 240  
 agagcattgc cttatgacct gaggtgggtc accagaacac tgaaaaggtc aagttgatcc 300  
 aatagaggat gagagtagcc canagtaggt agaagagcta ccatgtanga atagatagga 360  
 ccttgaattt gttgcagggt atcatgtatt cctgacagtc actccatgga ct 412

<210> 11939  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 11939

atgcttagtt aacctggtaa cccagctatc gttgaatcag aaatctatac ctgtcgcaaa 60  
 agtctatggt ttatgctcct ctgccgacca ccacacagat cttttccctt ccatgcagca 120  
 acctggagca attgagcagc ttgaagctta tgctgcaaac atttacaaca gacctcctca 180  
 acctcagcag ctaaataaac cacagcagaa caattatgac ctctccagca acagatacaa 240  
 tcccggatgg aggaatcacc ctaatctcat atgggtctagc cctcaacaac aacaacagca 300  
 gcctgctcct ttctttcaaa atgatgctgg cctaagcaag ccatacattc ctccaccaat 360  
 ccaacaacag caacagcccc agaaacaaca aacag 395

<210> 11940

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11940

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 aaaataatat taaaatcctc attatttcat taaaaacaac attatagtag aggaattgta 120  
 atcattctta agtcaaaatt gactatcaat taaactcaaa ctctgcagtt atcactcatt 180  
 attttcaaac aacttgagct tgtgagaagt tttactgaac ttgatataatt tctatctaca 240  
 taggctatgc cttggtgcat ggtcagacca tggtgaaagg actggtggat tntatgcttg 300  
 caatcgttat gaagcagcta aacaagaggg agtggttaagg gaattagaaa tactctactt 360  
 cattggttca ggttcatgat accataacct actgcccctg catatatattg ataacgatat 420  
 ttcttctgac taaatgttgt gcatgtagta tgataaactg 460

<210> 11941

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11941

actcggcatg ggacctgana tgttgttccc actcagatcc aacaatgtca aagatctcaa 60  
 actagtccaa ttactaggtta tcccaccact gatatcatta cctcccaacc ttatctcaac 120  
 aagagaatcc aactttgcaa cagaaggact caaagtccca ctaatattaa acttttccaa 180

aagaatcatg tccaccttcc catccccatt gcaccttata cccaaccatg gcccatcaca 240  
agggtcattc ccaactccact catcaaccaa aatccgagga taccccaacc ctccaagaaa 300  
ctccaacaac accatcacct caaaaccaca cataaccccg gggttggcca cacaaaattc 360  
attgtttctca aagctcactt tactcngctg cgaaatccgg atcggaccca cganagtggg 420  
gtattcanat caatctatcc aacttcattc a 451

<210> 11942  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11942

gaactacaga gatttatattc taattctaaa cccacaaatc aaactaatgt tatgcaggat 60  
tacaacgcaa aaatttcata ttttggcttg gcgaaattag ggccttcggg tggagattca 120  
cacgtgagta cgaggatcat gggaacatat ggctatgctg ctccagaata cgttgcaaca 180  
gggtgaacatg tcattctatc taaacacata tatatagaga tggtttgtga atatgctatt 240  
tgaagttgaa actaatcgtt ttatgattca acatgacacg ctttcgtgaa gagtgatgtt 300  
tatggatttg gtgtggtgct gctagatatg ctgacatgga tg 342

<210> 11943  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 11943

ctgcagctgg acttctgtgt ttgagaacct cttcttcctc aggtgtaccc aaaccaatc 60  
acctggttca agcacgactt tctttctgct tttgttggtc tgcccttgcac agcttgcatt 120  
attcttttca atctgaacct tcaactagctc atgcaacttc ttacataact cagcttttagc 180  
ctgtgcattc ttatgcttaa acatatcact gttagacata cgcaacaaat caagacgagt 240  
caaaggatta aatccatata ctatctcaga tgggtgaacaa ttatatgtgc tgtggacagc 300  
ccgattataa acaaactcaa catg 324

<210> 11944  
<211> 488

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11944

ggatccttaa gcacctgagg catgcaagct tgtttaccac atgttgagtt ngcttacaat 60  
 agagttgttc atagcactac taattgttct ccttttgaag ttggttatgg ttttaacct 120  
 ctaactcatc ttgatctttt gtctatgcct aatgtttcta tttctaagca taaagggtcaa 180  
 gcaaaagcgg actatgtgaa gaagcttcat gagcgagtca tagatcatat tgagaggaaa 240  
 aataaaagct atcttaaaca agccaacaaa tggagaaaga aatttgtctt ctaacccgga 300  
 gatttgtgtt gggagcacat gagataagaa aggtcttcgg aacatacgaa atcaaagctt 360  
 caaccaaggg gagatggacc attttcagtg cttgaaagaa tcaatgacga tgcttataaa 420  
 gttcagctac ccagggagta taatgttagt ccacacttca atgtatctga ctcatctctc 480  
 tttgatgc 488

<210> 11945  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <400> 11945

ttaaattatc tcagtcataa cagcctcacc ccatatatat ttgggaactt tagtagaaaa 60  
 gagtaatgcc ctaccacact ctataagggtg tgtattaatt ctctctgcac tcccattttg 120  
 gtggcgggtg attaacacaa caactatgat agacaatctc attttcaaga aacaaacttc 180  
 ctagggttgc gtcaaaatat tgcacccat tatcactact aactacttgt atattaacac 240  
 gaaattgact ttgcaccatc ataaggaaat ctctgacatc tagtttacct acagatcttt 300  
 cttataatat gtacacccaa caaagcctag tgtgggtcatc ta 342

<210> 11946  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <400> 11946

ctcttacagg tgactttgag cgtttgtgtc cggaggagta cccaacattt cctgattatc 60

tctctcgagt attggccgcc ctccatccac ttatcagaga tggatgaagat ggcgatgacg 120  
 tgcattgtgac gtaaaaaata cttogaactt taaatgcaag gtctgacttc attggtacca 180  
 acattgacga aaacgccgat ttaaggacca tgactattga gcaactcatg cgttccttac 240  
 ttgcctacga tgatgctc 258

<210> 11947  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11947

ggatccttaa tcacctgagg ctgcagctgg attccttttag tagganatct attcttccta 60  
 agatagagcc aaaccagtc accgtcatta agaactaact cttttcttcc tctattgcct 120  
 ttagttgaat acaccttctgt ttggttctct atttggttct taaccctttc atgcaacttc 180  
 tttacaaact ctgatctaga ttcccctttt ttatgtataa aagaagtgtc tagtgggagg 240  
 ggaatgaggt ctaatggtgc taggggattg aaccataga caacctcaa aggggattgc 300  
 ttggtggttc tatgaacccc cctgtttag gaaaattcta catgaggaag atacttatcc 360  
 caagacttat 370

<210> 11948  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11948

agcttggtgt aggtttcata atatgaaatc tgaatatata tgtgcacgga cgcattgtaa 60  
 tcgattacac acatatggta atcgattacc atacagcaat gttgtcagac ataactgctt 120  
 gtaatcgatt acactattat ggtaatcgat taccagaggt tatttgagcc aaaaaataaa 180  
 aacaaaaggc tttctaggag agaagaagtt ttgagttact atcacaatac tttttcatga 240  
 gaaatatata taagaatact ttatgaataa ttcttaataca tgtaattcac atatcatatt 300  
 atgcacgaac attaaaacat gtaaataatc aattntatca aaacaatcaa cacaagtatg 360  
 aagagtattg attntattga aatatatgaa tgaatatattc atgcaaataa gatgaaatca 420



atcaagaaca tctactcatg atttcaaaca atcagaacac aaata

465

<210> 11949

<211> 305

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11949

tatagtctga attctgggtc ctcttaggga ctnatacaat atatccgctg gctgggtcatt 60  
agaaccaatg aactcgatga caatctcctt ggacagaagc ttctctcgaa tgatatgaca 120  
atcaatctct atagcttag tcctttcatg agagactggg ttgaggcag tatgaagagc 180  
atcctgatta tcacaatgca acttcatttg caactcttca caaaacctca attcttgac 240  
aaattgtcaa atccacatga ggtcacacgt taccatagcc atcgatcgat atcaggcttt 300  
gcact 305

<210> 11950

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11950

agcttatccn cataagagtg cagaacagct ggtagtcat cattgattat aggaggctaa 60  
tccaggtaac caaaaaagat cattttcccc tgccattcat tgatcaaagc cttgagcgct 120  
tggcaagtat gtctcattac aattttttta tggtttttct gggtatttac aaattcatat 180  
tgctcctgag gatcaagaaa acaccacatt cacctatccc tttggcattt ttgcctatag 240  
gaggatgccc tttggcctat gcaacgcctc tggtagcttc caacgggtgta tgcttagcat 300  
tttcaatgat ttttttagaga gttgcataga tgtgtttatg gatgatttta ctggttatgg 360  
atcctctttt gatgcatgtt tggatagtct agatagagtt cttaatagat gcattgaaac 420  
taaccctgtg ctgaattttg aaaatgtcac ttcatt 455

<210> 11951

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 11951

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atgcctgggtt aacctggtaa cccaactggc catgaatcaa anatctgcac ctatcgccag 60
actctgtggt ttatgctcct ctgccgacca ccacactgac ctttgccctt ntatgcaaca 120
atctgaagca attgaacaac ctgaagctta tgctgcaaac atctacaaca gacctcctca 180
acctcagcag caaaatcagc cacaacagaa taattatgac ctctccagca ataggtacaa 240
tcccagatgg aggaatcatc ccaaccttag atgggtcaaat ccttcacaat agcagcagca 300
acaacaacaa ccttatttttc aaaatgttgc tggcccaagc agaccatacg ttcctccacc 360
aatccagcaa caacaataac aatagcccca gaaacaacaa acag 404
```

<210> 11952  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11952

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attgcatcca gtagaggat gtctacctct actttttctaa atgtttccaa gatctccttc 120
tttggtctct ccattttttt gatggaaatt gctcttggag ggaatggaag agggatatgt 180
tgcttctctt tagattcacc tgcatagaaa ttggtaggta tcttactctt taaatttttg 240
tcatcatctt tttctggagt agagagaagt tgggcagggt catttgcaca tgaggaagat 300
gttgctgggt gaggttcttg aactgcttt cccgacctca atgcagtggc actcacatat 360
ttgggattct ggacagattg agaacgtaat ctgtcacaat tctgggactg ttgttgatta 420
act 423
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<210> 11953  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11953

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ntggcaacac aaggtgagag gctttatttg gaagtgtgtt ggggaggagc aatctgcttt 60
caccgaaggg agatcgattc tggacaatgt gctcattgca gtagaaatca ttcactatct 120
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taaatccaag accagagggg gaaatggata agtggcctga agattgatat atgtaaggcc 180  
tatgacctcg ttgactgggg tttctagatg caatccttgt caagttgtga ttttgcaatc 240  
aatggaccga gtggatgatg atgtgtgtca aaactgttta gtatgtagtg gtagtgaatc 300  
atgacaaggt tgatcctatc tcccctgaga gatctctggc aaggagatcc cttctccctc 360  
ttttatatat ataatttttag ctcaaggtct taca 394

<210> 11954  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 11954

agctttttat ccaactgggt taaggttcaa gaactctagt gatggtaaag ctttctcctt 60  
ttctttcttct tttgctttga ttatattccc tgagtatgaa aagttaggag ggcattggtct 120  
tgcttttaca attgcatctt ctaagaatct caaggctctt ccaagtcagt atcttgggtct 180  
tctaaactca actagcacag ggaactcctc caaccacctc tttgctgttg agtttgacac 240  
tgcccaagat ttttagtttg gggacattga tgacaaccat gttggaattg acatcaatag 300  
cttgggtctcc attgcttctg cacctgtatg ttactacacc ggggggtgatg ataattt 357

<210> 11955  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 11955

tccccgtggc ttctttgtga agctttctca agaggcttct ttgagaagct agatccttat 60  
ctaccacac ccatctatct actaaattaa cctccttaaa aataattacg gataaaataa 120  
cacaacaaat acagtcaagc atcaaacata attattaata tatagatata tatatcaggg 180  
tgttacaact ctcccaccct tttagaaatt tcgtccccga aatttacctt actcaaacat 240  
ggatgggtga gcttctcgca tttgactttc taattcccat gtggcatctt ctctgtgtgc 300  
acctccccag atcaccttga ccaacggaat ctctttccct ctaaggtggt ttgttcgcct 360  
a 361

<210> 11956  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 11956

tcactctcat tcccttctcc acgctgacca catagtagag tctatttcat caacgaatat 60  
 gatagaaggt gcactttcgc gtgccatttg gaaaagattt gagaccagct tttcactttc 120  
 tcccatccac tttgaaacca ggtctgacga agaaacactg gtgaagaatt aaaaagttaa 180  
 aacatgtagc aaaaaaatgc ccacctaacc taagcactta catttgcgac cttatttttc 240  
 aaacaaaatc actgacaagc agaactatta gactcagaaa ttgaaaatgt taaaaataac 300  
 aatgttgatg attatgtgaa atcatccata tgcacacaca ttcattccacc aaactcagtg 360  
 cgtgtttgga ttaacattga atgattcaaa accacat 397

<210> 11957  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 11957

agcttattca catagtcacg actgtttctt atctttcttta tgcataaaaa cagaaacatt 60  
 acgcatacgc aaaagatcac gaagacgcag tgggttaaaa ccataaaciaa cttctgaagg 120  
 agaacaatta gtggcgctat gaacagcttt attgtaagca aattcaacat ggggtaaaca 180  
 agctacccaa gtttttaagt tctgtctgac aactgttcta agcaaagttc ccaaagggct 240  
 attaacaact tccgtttgcc cattacgctg ggggcgac 278

<210> 11958  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 11958

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgt ggaaccttca 60  
 cccgacgaag aactggcaa aaactaatct tctctttatt ggacaaagtt tggcaggctg 120  
 ggggcaagta aattttcttc ccatcaaacc ttggatgcaa ctgcgctctt atacccatat 180  
 cagctaaatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240

tcccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgtctaa 300  
cgtcaagatc a 311

<210> 11959  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 11959

agcttcatgg gagagtcaaa gatcaaattg agaggaaaaa taaaagctat gctaaacaag 60  
ccaacaaagg aagaaagaag gttgtcttcg aaccgggaga ttgggtttgg gtgcacatga 120  
gaaaagaaag gtttccggaa cagaggaaat caaagcttca accaagggga gatggaccat 180  
ttcaagtgtc tgaaagaatc aataacaatg cttacaaagt tgagctgccc ggtgagtata 240  
atgttagttc caccttcaat gtctctgatt tatctctttt tgaagcagat ggagaattct 300  
atttgaggac aaattcttct taagaggggag agaatgatg 339

<210> 11960  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 11960

ttgaatgtc tattcactgg agttgacaag aatatcttca gactaatcaa cacttgcaca 60  
gtggccaaag atgcatggga gatcctgaaa accactcatg aaggaacctc caaagttaag 120  
atgtccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttggga 240  
gagaggataa cagatgaaaa gctgggtgaga aagatcctca aatccttgcc taagagattt 300  
gacatgaaag tcaactgcaat ataagaggcg caagacattt gcaacatgag agtggatgaa 360  
c 361

<210> 11961  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 11961

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 gtgcaacaag taaactgagg ttcttcacaa atcttctata aaaagttgct aaaccataaa 120  
 aaattcttac cttattagca tttttaggta caagccattc cctaattgcc tttacctttt 180  
 cttcatccac acttattcct tttgagctaa tgataaaaact caagaacaaa acatattcaa 240  
 ggcaaaaaga acatttttat aagattggca tacaatttat tttctctcaa aacattaaaa 300  
 acaatgtgtt cctctaagt tttgctatag atcaaaatat catcaaaata caccacaaca 360  
 aatttcccaa tgaagcacac aaaaca 386

<210> 11962  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 11962  
 catgcaagct tactactaga atagattctg ttatagtaag ttcgtctaata taaaatttta 60  
 ttgtatttat attctgataa tcattagcaa tgagtgtctat tactttggta tcttagatta 120  
 gtattaacta gaaatagttt tgtgcaataa atttattctt agtgataaac aatattaggt 180  
 ttaggaaaat atatctatta tatttgtatt ttgataataa ttaataatgt ctgttattac 240  
 ttccctatth taagttagct ttacttagaa aaagatatgt tccatcaatt tattttc 297

<210> 11963  
 <211> 189  
 <212> DNA  
 <213> Glycine max

<400> 11963  
 aatccccaag taggattctg tctcaagaca caccgtaaaa ttcttgattc agagcgtgcc 60  
 caaaatgggc taattccaca taacaatatg tatgatataa ccccaaattc ccataagtct 120  
 acttcaacac tgtaagaact aaggagcact tcatgagcaa cgctatatgc aactgtcaac 180  
 aatgtcaat 189

<210> 11964  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 11964

agcttggcaa caagcaatga acgctttggt ttcttgagtg gctcctttgc agagaattat 60  
ctgacagagg agctcaacat tcacagatcc aggcttggtc ctctcaactc accatcataa 120  
tatgaaacgg ccttgaaaga tggctctgct gatgggggtg tcaactgcaat aatagatgaa 180  
cgtgcataca tggagctgct ccttgcaacc agatgtgaat acggtcttgt tgggcaagag 240  
ttcaccataa tgggttgggg ctctgcaaga gcattatcca tctcctcttt ttgaaattca 300  
caatcagata tatcacatgc atttcccacaa atattaaaga tccggttttc aataaatcta 360  
agaccatcct ttcta 375

<210> 11965

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11965

ngcattattt tattttattta ttttgggtgac aaatatatatt ttgcttgagg tctgggttatt 60  
acgatgaagc aagaaatggt gcccaatctt cacatcaatt tgctcctttg gtacatactg 120  
tggctactac ttatttacta atttatgatt taatctttct taataattta cttatttatg 180  
acagctggca gagtggatta ataaaggagg gatggtacct gaagagattg cagctgccgc 240  
atcagaggaa tgtgaaagaa tgttgattgg cattacccat tgacttgtga aatccaagta 300  
cacaaaaaat tcccacaaaa gatatatgaa ataatgttta ag 342

<210> 11966

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11966

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actgagatac ctctgcaata gcagaccaga tatctgttat gccgtatgcg tgctgagtaa 120  
attcatgaat aggccaaaga aatctcattt cttggctgtc aaaagggttc taatgtatgt 180  
gaagggaact atgcagtatg gtgtgatggt tccaagtaat gttgatgggtg ctgagatgaa 240

attgattggg tactcacatg ctgattgggtg tggggacagg acatatatga gaaacacatc 300  
 tggctacttg ctcaaatttg tggagctgct g 331

<210> 11967  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <400> 11967

ttcgagaaat tcaaatagtc ataacattta actcggatgt caaatttcgg ggcataatat 60  
 atcgcgacac tcgaaattga acaacgaaag ctctcgagaa atttaattgg tcataacttt 120  
 taactcggag gtccgattca ggcgcataat ttattaagac gcttgaaatt gaactatgaa 180  
 agctcttgag caattcaaat ggtcataact tttcacacga aggtcagatt caggtgcata 240  
 atatatcgag acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggtcataa 300  
 cttttaactc ggatgtccga tttaggcgca tcacatatag agacgcttga aatcgaacaa 360  
 cggaagctct cgagaaattc aaat 384

<210> 11968  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <400> 11968

agctgacgcg tgcgcgcttc cttgagaaga tgtgtataga agctagagct tagctacaca 60  
 cacctctcta atagctaagc tcacctcctt gagatgagaa gctagaactt aactacacac 120  
 cccgtataat agctaagctc acccccatga caaaatacat gaaaatacaa aaaaagtccc 180  
 tactacaaag actactcaaa atgactcgaa atacaaggct aaagccctat actactagaa 240  
 tggccaaaat acaaggccta aacgaaggaa aaaaaaccta ttotaatatt tacagagata 300  
 agcgggctca tacttagccc atgggctcaa aatctaccct aaggctcatg agaaccctag 360  
 ggccctccct tggatctctg gcccaatcta cttggag 397

<210> 11969  
 <211> 270  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <400> 11969

tgtanaaaat tattaaatat tataatggtt ttggattgta tnaatgtgtt tagnttaa 60  
 gattaaanat gttgttttaa agtatgaagg tnattaagnt tgtgaattaa tttaaaaaat 120  
 ttttgtaata nagtatgaaa agtataattt attaaattat nmnttaaaat tataattgaa 180  
 ggacaaaant tatagtatnn agtaggtggt tttagtgtta tnnaattaaa tgtttagagt 240  
 atatatnagt aattttttta ataaatgttt 270

<210> 11970  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11970

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 ccgggttcga agacaacctt cttctccct ttgttggtt gtttagcata gcttttattt 120  
 ttcctctcaa tttgatcttt gactctctca tgaagctgct acacatagcg ggcctttgct 180  
 tgaccttctt tacgctcaaa aaaagaaaca ttaggcatat gcaaaagatc aagaggagt 240  
 agtgggttaa aaccatacac aacttcaaaa ggagaacaat tagtgggtgct atgaacagct 300  
 ctattgtaag caaatc 317

<210> 11971  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 11971

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 ttgtactgag ttgtctgtgc tgcttttgtc taatctttt agttcagttc cggatgttaa 120  
 tggacttttg ggggactccg ggggtggagca catggttgct atgaatattg atgagtttaa 180  
 ttacttagaa ggcccgggtc ctgttgagat tatgaacctt cctaagctga gactgctgtg 240  
 ggcgcctatg gcgaatctgg aaggcagttt tatgagcagt tggggcaagt gtgatagcta 300  
 ggagatgcta aatttggctc aaaatgatgt cactggggat tttcctaatac agcttgggtg 360

ctgcaagaat cttcattttc ttgatttgag tgccaataac

400

<210> 11972

<211> 396

<212> DNA

<213> Glycine max

<400> 11972

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accctcctgc atttgtataa ttatcttcat ctttgtaaag cacgtcaatc atgcgcacaa 120  
ggttgacaac acgcaaaaga aaattcattg gcacttcagt aggattaagg catgcctcat 180  
tgatgtcctt ccaagcactc ttaaccatct caagtagttt attaatggca tcttgcccttg 240  
agggtgttatg ttgcttcata tagctttcaa tgettgtatgc aacgtgtctt ctttcctgct 300  
caaacctttgg ggaaaaaaat taatactaaa gaaaccaatg ttttaaccctg aaagtaaaag 360  
ttggtattac caaaattata aggtaaatta aatgtc 396

<210> 11973

<211> 297

<212> DNA

<213> Glycine max

<400> 11973

agcttgtgcc tcttcacgtc tggaatatga atgtatcata tagatccaaa gacccttatg 60  
tgctttgctg atggcttctt cccgttccaa gcttcaattg gagtcttgct ttttacagac 120  
ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccaaaatgtg 180  
ttaggtagtc ccttctcctt aagcatcgat ctagccatct tcataaatgt gctattcttt 240  
ctctcggaca ctccattttg ttgacgagaa tatgcaactg taagttggcg ctcaatg 297

<210> 11974

<211> 366

<212> DNA

<213> Glycine max

<400> 11974

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ttcctgaatt actttgatat attccaagca ttccaaccac aaatgccatg tcaggtcttg 120

ttcacacctg ctcatacata atgcttttcta caatggaagc atatggaatg tttctcattt 180  
gttccctttg aagcttattt ttaggacatt gattcaaact gaatatatca cctttcaca 240  
taggtgtcat gttgggtgaa caatcttcat gcaaaacatc tctagaactt tgatagtatt 300  
ggccctttga gagaacccga gaataccttg atatcagttt ctatggatct ctatgccaat 360  
gacata 366

<210> 11975  
<211> 271  
<212> DNA  
<213> Glycine max

<400> 11975

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gcacaaaatc tcttgaacta ggaagatggt gtccatcatc tttctgttct taatgaaagc 120  
agtttgagtt tccccaataa tagtctcaag cactggggct atgcgggttg ccagaatttt 180  
agatacaatc ttgtataaca aattacagca agatatgggt ctaaaatggt taacctggga 240  
ggcctgatca tgcttaggaa taagcgcaat a 271

<210> 11976  
<211> 269  
<212> DNA  
<213> Glycine max

<400> 11976

agctttgttc taattcaaat gacaataatg atttgctcgg atgtctgatt gagtcccgt 60  
atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120  
tttttactcg gatgtctgat tgagtccgt aatacatoga gacgctcgaa attgaattct 180  
gaagctctga gctaattcaa acgacaataa ctttttgcgc ggatgtctga ttgagtctcg 240  
taatctattg agacgctoga aattgaatt 269

<210> 11977  
<211> 256  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 11977

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atatactac acgctcgaaa tttaaaaccg aagctttag caaattcgaa cgacaataac 120

ttttactcgg gaagtccgat tgagtcccgat catatatcga gacgctcgaa atttaaaacc 180

gaagctcgta gcaaattcga acaacattac cttttccctc ggaggtccaa tggaggcccg 240

tactttatca gaacc 256

<210> 11978

<211> 260

<212> DNA

<213> Glycine max

<400> 11978

agcttttatac aaattcaaac aggaataact ttttactcgg atgtccgatt gtgtctcgta 60

gtatatcgag cgctcggttat tgaaaacaga tgctcataga aaattcaaac aacaataaat 120

ttttattcaa atgttcgatt gtgtcccgta atatatcgag atgtcaaaa ttgaaaacga 180

aagctcgtag caaatgcaaa ccagaataac ttttaactcg gatattccgat taagtcccg 240

aatatatcgt gacgctcgaa 260

<210> 11979

<211> 258

<212> DNA

<213> Glycine max

<400> 11979

agcttttgtg aaattcaaact ggtctaaact tttcacacgg aggtccgatt cgggcgcata 60

atttatcgag acactcgaaa ttgaacaatg caagctctcg agaaattcaa atggtcataa 120

cttttcaatc ggaggaccga ttcaggcgca taatatatcg agacactcga aattgaacaa 180

cggaagctct cgagaatttc aaatggatcat aacttttcac tcggaggtcc gattcaggcg 240

cataatatat cgagacgc 258

<210> 11980

<211> 242

<212> DNA

<213> Glycine max

<400> 11980

aatccctggg cttcttttgcg accatatggg catgaggtcc atggccatca aaaacaccac 60

agaaaacggc ggccttggtt gaagagaaat tatcccagag aagcatggca tcctgggtga 120

tccttttgcg accttgctta cagaacaagg aagcaacctg ggacgaacag ttcaagaata 180

atctgccagg aactctgtgg agccgcattt ccatgttata atcagaggca gttctggaac 240

tg 242

<210> 11981

<211> 262

<212> DNA

<213> Glycine max

<400> 11981

agctttgagc caactcaaac gataataact ttttactcgg atgtctgatt gagtcccgta 60

acatatcgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa cgacaataac 120

ttttttctcg gatgtctgat tgagtcccg aacatattga gacgctcgaa attgaatgtt 180

gaacctctga gccaatcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240

taacatatcg agacgctcga aa 262

<210> 11982

<211> 262

<212> DNA

<213> Glycine max

<400> 11982

agcttgattt gaaaatgaaa ttcaacaata ataaaatatc atacattgca gccaaaaaaa 60

taaaatccca gatttcataa ttaggggttca tgcataattg ggagaaaaga aacctttctt 120

ggagaatcat aattttcata acttatgctc taataccaca tgtaaatttt aaggatttct 180

tagattaaca attgtaggaa accaatagga tcttgaaacc tatgattctc acaaacaatg 240

gataaacaat gcgtattttt ct 262

<210> 11983

<211> 260

<212> DNA

<213> Glycine max

<400> 11983

agctttaaca ttaattaaaa gctcattggt gcaggggcaa gcactttcgg taattttgat 60  
gcatgtgact gaacttggtc caatttatat gaaataaaat aaatgcattc tcagggtttg 120  
tttgctgaat gctacagggt ttgcaaaact tttttgctgc tttagtctat tctgcaaata 180  
ctagttttga ttctctgctg gagtcaactac ttgcctgtgc taagccttct ccacagtctg 240  
gtggcattgc taaacaagct 260

<210> 11984

<211> 262

<212> DNA

<213> Glycine max

<400> 11984

agcttttgct gcaaacattt ataaaagacc cctcagcag caaaaccaac aacagcggaa 60  
taattatgac ctttcaagca acagatataa tctaggttgg agaatcatc caaatctgag 120  
atgggcaagt cctccacaac aacaacaacc tgacctctct ttccagaagg ctggtggtcc 180  
aagcaagcca tatgttctct ctccaatata gcagcagcaa caacaacagt cacaacaaag 240  
acaacaagca actgaggctc ct 262

<210> 11985

<211> 260

<212> DNA

<213> Glycine max

<400> 11985

agctttatct tgttcagggt cagggtgctgc tactggtgga ggcacttgaa tttggttgcc 60  
agacctcaag gtgatggcac tcacattttt cagattttgc acagtttggt aaggcaattt 120  
gtcagaattt tgggactgag cttgattcat ctgagtagcc atctgtccca tctgatttgt 180  
cagactctaa atgaaggctc ttgtctcttg ctgaaattgc atattctgga tggtcatttg 240  
cctcactaac ttttctaagg 260

<210> 11986

<211> 333

<212> DNA

<213> Glycine max

<400> 11986

actaggagag tctcttatat aacagtaaca gattcgttgg ttgaatctgt tgtgggtgct 60  
agagaggatg acaaggagaa actactgagc atgcttctat atgatgatga tgccatgtct 120  
aatgatatag aagtgatcac agtattgggc atgggagggt taggaaaaac aacccttggt 180  
caatcccttt acaatgtaag tgaagtgcag aaacattttg atttgacagc ttgggcatgg 240  
gtgtctgatg atcttgatat tctcaatgga acaaagaaaa ttgttgagtc tctcacattg 300  
aacgagtgtc atttacttat cttggcggtt tgc 333

<210> 11987

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11987

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gaatcccact tatgaaacat ttaccttgga ttagatcctt ggattttgaa gcttcatcac 120  
cgttaagggg aaagactctt cctgtggcct tcgaacatcc agtttggtca ttcaggccca 180  
caccattccg ctcttcttg ggatataggc aatctctctg aatatgccct ttctgcttac 240  
agttgaaaca agtcatgcct ttattagcac aatttgagga gatatgccct ggcttaccac 300  
at ttgtaaca tgtgatctga gttgaggaag tagtgggtt gctaccacta acaccacca 360  
tagcaacagt cctttgattg ttggggcgaa taccatattg cttagaggga gttgagtacg 420  
gtttttccct atg 433

<210> 11988

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11988

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aaaatccttg atgaaacacc tgtcaaacc gacatgtcct ataaagtctt tgatgcctct 120  
gacattgggtt ggcagatgca atatttcaat gactgacacc ctggcttcat cgacattaat 180

gccatgaaca aagactttgc ggctaatac aataccttta gttactataa agcgggaatc 240  
 tttctaactg agctcaaata tttttgcaac acgctgcttc agtacagagt caagattaca 300  
 aattcataaa tcacaagaag agccacacac acagacttca tccatgaaca ctctaatact 360  
 cttctccacg aga 373

<210> 11989  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11989

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 acaatgtcat gagttagtgt gtgacttcat caatgtgcat gggacaggta cttgacgggt 180  
 ttcctatatt tcacgggcat taatttcggt ttgacatttg ttgctgctat tctctgtgtg 240  
 tgttttgac ccacaccagc aggacctgga attcctgaga tcaaagctta tcttaatggt 300  
 gctgatactc ccaacatggt tgggtgccaca acattgattg tcaaggtaca ttaattattt 360  
 gattgtatgc aacactgtct c 381

<210> 11990  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11990

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 cccgtacctc atcggaacc caaacagtac cccatctgcg gccgtcaact acggcattgt 120  
 tatctctggt atggcgcat ccttggggga cgcctcatc tgatatatca cctcaatcgg 180  
 caatgtctcc gagaccctat acagaacccc ttccacacct tccactctgt ccatgtcgat 240  
 cttcaacctc ttcgacatcc ccccatgccg tctgagagag acgaccacga cgaccacgct 300  
 gctttacgtg ctggcactgg cgtgtagggg cacgcggcag gcattgtctg gaggcgacat 360  
 cagaggcaac atggggggtg tgggtgacatc agtggggag 398



<210> 11991  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 11991

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cccatggaag ctcttaatat ctcccacact ttttgggtgtg ggccattctt ggatggcctt   60
gattctctca ggggtccactt ggacccatt tctaccaact acaaaaccta agaaaactat  120
attatctaca caaaagggtac acttctctat atttgcataa aggggtgttct tcctaaagac  180
tgaaagaact tgtctgagat gtcctaagtg aaaatctatg ctctactat aactaaaat  240
atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat gatgcataag  300
cctcataaag gtgcttggtg cattagtga cccaaaaagc atcactagcc attcatacaa  360
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<210> 11992  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11992

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gatcaattga tagtctcaga gttcaagacc ttgtctgagc taaagcaatg ttacttcaaa  120
aaacaatntg atcctttacc agatagagca attcttgcag ctaaattaaa ggagctgcaa  180
agtgtcaaca aaacctttga gaatacaggg aagaagttag aatcgcaggc agggctcaag  240
gactctgaga ttatatttct ccaagaaaag ctagaggaag ctaatgtgca caataagtca  300
attgagaaga gttaaataca agtggatcat tatcagttct tgataatctc catatgtcag  360
gactaagtcc tagccatttt gtcaccgctc ttcgccacac agttaggctc attcggagct  420
ntgtgaaaat tgtagtaat gaaatgagat ctgcttggtg ggatattg                               468
  
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<210> 11993  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 11993

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tgaccttcag atagcataga aattgcaatt cttcaggaat gaggaaaagc aaagcatttc 120  
ctttcccacc ttcaccacga gctgttctac caaccctgtg gatataattcc tggtagcagt 180  
ataaaaaaaaa tgtgacatag tacatcaaag tataagactt ctaagaagca aatgaaaagg 240  
gatattgatt gataaataga agaataaaaa gtaccttttg ttcacacagg ggatcatact 300  
gcacaatcca gtcctacagc acaaataagg agacaataaa cataaatctt atatatgtaa 360  
tgaatttcaa ttaacagaac agaatgctga ataaacacgg ttcattcaag tgttgtaaaa 420  
tgtntaccat tagtattagt atagaaaacc aaattaaaca taga 464

<210> 11994

<211> 355

<212> DNA

<213> Glycine max

<400> 11994

tgaagctcct tctttctgtc ttattcccta gtggatgggt cctcccctat cctcttctcc 60  
tttgcttcc gctgcatctc catggtgaaa aatcaccatt gaaggacctc attgaagctc 120  
aaagatccag cctccataga agctccacaa gcaagcttcc atcacttttc acacagaggt 180  
cagattcggg cacataatat gtccagatgc tcggaattga accacggaag ctctcgagta 240  
atacaaatgg tcataacatt tcacacaaat gtccgattcg ggcgcataat atgtcgagtt 300  
gctctaaatt gaacaacaga agctgtctat aaattcaatt ggtcataaat tttca 355

<210> 11995

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11995

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ttcaattact gtcaaggcct ttggagcatc tataacttgt tcaactatat ttccagcgac 120  
atttcgggtg ataagctgca ccaaattctt ctttttcttc tgtattcttt cagcacgaaa 180  
gtattttttg gttttcaatt gcttggaac tatagtttgt atctctcctt tggatgatt 240

cttccggatc tcatccagag aagccccctt ctcaagctct gctaacaatt gttttcttgc 300  
 ttectcaaat tccatctaata tcaattaagc agtgagtgcc aaaaagtatg gtttagagaaa 360  
 atgaaatata gttntgacaa tctatgtcat taat 394

<210> 11996  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11996

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 tcaaagaaaa aatcgactca tagtcagggg cgtttaacaa aatcttcttg gaaagggact 120  
 cattttttga aattcaatct tgaaaggtgt tcagtacatg tatggngtga gacagggttg 180  
 gaaaatacaa ttgttccaga cccaagcga gttaattacg gctcacaggg gggtagagtt 240  
 atgctaaatg tgtcagcaga tggtagccca cgcaatgcaa atataatgtc cactatttcc 300  
 gatgaatacc agaagctgaa gtactctgtc tctcttgaaa tatttcaata tagtttgtgt 360  
 gtgaacaaag agaaacagtc cacacagatg gaacttgaaa gagcagatct g 411

<210> 11997  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11997

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 aatattattt ttacataaaa agtcatctat attttaaaag gtcagtgtaaa aattataata 120  
 acctatata atatatatat atgatttatt gtaaaagact ttataataa atatcttggt 180  
 atttaaactt taatagattt atatcataag gataagattt ttaaaaaatc tataaattta 240  
 taagatttaa aaaaatcata tagaatttta acaaacattc aaaattcaaa tgataaaatt 300  
 aaatatctgc tgtgttctat tataaacaac cttaaataatg aaatgccatt tttaactctg 360  
 tcatatctaa ttgtcagctt catcatcata ttcagtctat cctctgcta acatttacta 420  
 aatctttccg actgtactcc aacattatg 449

<210> 11998  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11998

aaacataagc acttagacaa tgtttgtag cnggagnngc tgcacatgat gtccaacggt 60  
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 aattgaagct gcatgattca cgatgtctga tacaatgtcc aggacatcct gctcgaaaat 180  
 actggaattg ctaaaagcat tgaagctgca ggatccacga tgcgggatac aatgtccagg 240  
 acattctgcc cgacaatact ggagttgctg tacaatgcaa gataaaagtc aagttgtgaa 300  
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 tataattctg tttattttta cagattattg gcagttgc 398

<210> 11999  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 11999

ctatacgaga catcttgccg aacgaagtca agctatccat aacttgccctg tgctccttct 60  
 tgcattgccat atgtaacgga gacgatgatc ctgtcatgat cgacgacttg gaaaatgatg 120  
 tcgtaactat actgtgccag ttggagatgt attttaccac tgctttcttt gacatcatga 180  
 ttcacttgat tgcgcatttg gtgagagaca tcacatgttg aggtcttgat catttgccga 240  
 ggatgtaccc gggtgagcga aacatgaaga 270

<210> 12000  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12000

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 actagacatt ctctgaaaga cttatgcaat aatatggatt ttgtatctat gattgaacct 120

aaaaatatga aagaagccat tatagatgat aactggatca ttgccatgcg agaagaattg 180  
 aaccatttg aaggaaacaa tgtgtggaaa ttagtagaca aacctgataa ttatactgtc 240  
 ataggaacaa aatgggttct tagaaataaa ttagatgaac atgggtgtaat tattagaaat 300  
 aaagccaggt tagtagcacg aggggtataat cgagaa 336

<210> 12001  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 12001

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 gcactacttc tggcactaaa ttgctaagag ttggaagcca tcttctcaat taaattttctg 120  
 gcttcagcaa aggtcatgtc tccaagggct ccaccactgg caacatctat catacttctc 180  
 tccatgttac tgagtccttc ataaaaatat tggagaagaa gttgctctaa aatctgggtgg 240  
 tgagggcaac tggcacataa tatttttaaatt ctctcctagt attcatataa gttctctcca 300  
 ctgagttgcc tgatgcctga aatgtctttt ctgatggaag tggctcctaga tgcattggaag 360  
 aatttctcca acaacactct cttaatgtca tccagctgg agatggatct ga 412

<210> 12002  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12002

atcttcttct tcaactacatc aagaatcacc gggttgagtc ttctctgggg ctgtcttact 60  
 ggtttagctc catcctctaa atttattcga tgcatacatg tggatgggct aataccagga 120  
 atgtccgcca ggggtccagcc tatagccttc ttatgcttct tgagaactgg caacaacttc 180  
 tcctcttgct catcagcaag ggaggcagat ataactactg gaaaactctt gctatcatcc 240  
 aagtaagccg tattttaaatt ngatggcaga ggcttcaatt ttgggtgtggg tggttggaca 300  
 gtggtagaag gagatgggtt ctacgccttc acctcataaa gaaagtcaga ggtatgtgta 360  
 cttccctgaa catgggttagt cctatctgac tctatnaaat caatcttgag aggtaanaca 420

ccaccaccag acattgcatc aatatcactc tcagatcact c

461

<210> 12003

<211> 327

<212> DNA

<213> Glycine max

<400> 12003

cacatgaact aacatcacta ctttcatatt tggctatctc tttcttacac ttgaacatca 60  
ttggattcca atcgtttcat gactcaagaa gttttgacta ctcccaagtg tcatttttct 120  
tgatgatatt aatttctctc tccatggctt gtctccacct tttgtgttcc atagcttctt 180  
caaaggtgaa aaactccttg tctacaaaaa gacaaaacac ctcatcctg acttcagttt 240  
catcatgtat gtcttgaacg cttcttcatt attcttagtc tttcacttga actcccttcg 300  
gaagacgaac ttcctgaatt gaatgac 327

<210> 12004

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12004

aaagtgaat tgaagctttc tatgatgctt caatggatca aactcctcaa aacgtgtgat 60  
aaaaccagca acaacaccta tgatatectc ttgagttcca tgtttgacaa gagcttcatt 120  
ccacaggtcc ctccaccttg tagaaagaag gctggtttct agcgatgatt catttggtag 180  
aaatgaaact atgcgaccta gaatttcgtc tggtaaatta ctaaacagat cttttcccat 240  
atggaatgaa tctgttgntt cagtatggtc ttgtttggac taagaatata atgacatcta 300  
tatatttgta actntataat tcatgtgaac tatgcangtc acaacaagga gatat 355

<210> 12005

<211> 206

<212> DNA

<213> Glycine max

<400> 12005

gatgatcat gatgagcagc gtttgaagca agacttatag cagatttatt atcacaaaat 60  
agcatcacag agggcacatc aacttcaaag tgaataagta acttgtttaa ccacacaatt 120

tcactagtaa cagaagacaa ggcataatat tcaacttcag tgcattgatt tgaaacaggg 180  
 ggttggttct tataacgcca agaaag 206

<210> 12006  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <400> 12006

tgtaagaaag catgaagatg agagcattgt ggtggtgatt tccctttatg acagcattca 60  
 gttctgaggt tgcacatga tgttttcctt gcacctagat gtttgaatat gcctcataaa 120  
 atgtatgtat gttgcatata agtaacaaaa tgccctcgtga aatgtatgta tgttgcatgt 180  
 aagtaacaaa tgtctcataa aatgtatcta tgttgcatat atgtaaaaaa atgcctcata 240  
 aaatgtatgt atgttgcata taggtaacat atgcctcata aaataccttg ttaatttagg 300  
 tagcaaaaata ccttatctat ttatgtagca tacatacctt atcaaattac gtagcaaaaat 360  
 acttgaatac acattgaaat gtagattttt acgtagcaaa aatactcgaa tatgcatgaa 420  
 atataatttg ggttagcaaaa atacttgaat gtgcataaaa tatat 465

<210> 12007  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12007

agcttcaaca ttcaatatcg agcgtntcga tatatttctg tactgaatca gacatccgag 60  
 taaaaagtta ctgtagtttg aagttgctca cagctaaggc attcaagtcc gagcgtctcg 120  
 atatactgcy agactcaatc agacatccga gtaaaaagtt attgtcggtt gaatntgctc 180  
 agagcttcaa cattcaattt caagcgttcc gatattttac aggactcaat cggatagccg 240  
 agcaaaaagt tattgtcatt tgaatttgct cagagcttcg gtattcaatt tcgagcgtct 300  
 cgatatatta cgggactcaa tcagacatcc gagtcaaaaag ttattgtcgt ttgaatatga 360  
 acagaacttc ggtattccat tttagcaaac tcgatatatt acaggactca atcagacatc 420  
 cgagtaacaa gttattggtc gttgatttgc 450

<210> 12008  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12008

cttctggcctt caattcatca gtgggctntc cttctgtgtc cagcatcttg ggatgttccc 60  
 agcctttgat gacagctttc cagggttctgc tatccagtga ttgagaaaag gccaccatcc 120  
 ttgctttcca gtattcatag ttggtcccat ccagaattgg tggctgtgtc actggtccgc 180  
 cttctttctc catgttcac cagaatntatc tccctagatc tcactcagtg atttcgagtg 240  
 cctgctctga taccaattga aattctgata ctggggacag atgtcgtaca ggatgtcacg 300  
 acatcacgct tcagaacatg cagattgtct ttgactgtat gaacagatta aacaagtaaa 360  
 taacacaaga gaattgttaa ccagttcgg tgcaacctca cctaca 406

<210> 12009  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12009

agctntntcg cgcactaata ctgagctgta tgtttgtgtt aaggatatgtg gactccaaaa 60  
 ttgatatggg agataatgaa gctctaacca agtcttttgt attagaagaa tttaaatatg 120  
 cccttttcca aatgcacttg gataaggcgt ccggacctga cagattgagc ccgacccttt 180  
 ataaacgggt ttggaatggt tgtggatttg agattttcta ggcttgtgtc tcctggctgc 240  
 atgaagggac tatgcctcct cacttgaatg atactaatat tgtcttaatt ccgaagaagg 300  
 agaatccagc atctatgaag gacctttgtc ctatatcttt gtgcaacgtg gtgtacaaga 360  
 tcatgcta atgtgttagcc aatacgttga agcccggtgt ggataatgta tctccgcaga 420  
 gcaatctgtg tttgtggaga acagatctat tattgataat 460

<210> 12010  
 <211> 484  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 12010

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agcttgtaca tggcaacatc aaatcctttt cttctttctc aacaccaaac agtatggctg 60
cgtgtctgac cttggcctgg caaccatata aagctcactt gccttaccaa tatcacgagc 120
agccgggttac cgtgcaccag aagttacaga caccagaaag gcagcacagc cctcagatgt 180
ttacagctttt ggtgtggtgt tgctagagct tctgactggg aaatccccta tccacacaac 240
tgctggcgat gagattatcc accttgtagag gtgggttcat tcagttgtgc gcgaggagtg 300
gacagctgaa gtgtttgact tatagctgat gagatatacct aacatagaag aagagatggg 360
ggaaatgtta cagatagcca tgtcatgtgt ggtaggatg cccgatcaga ggcctaagat 420
gtctgaagta gtgaagatga tagataatgt ganggcagat gatgcagata ctcaactc 480
atct 484
```

<210> 12011  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12011

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agcttaacca aagtctatac tgttttgttt gttatagctc tngactacta tccttgccct 60
attcctagtg atcaaaccat gttcattcaa tttattttta aacactcatt tagtgtaa 120
gatgttcattg tttttaaaat aaggtattaa ttcccatata tcatttcctt taaattggnt 180
caactcctca tgcattggaca tcatccaaaa cttacatttg agtgcctctc ctatagacaa 240
tggttctact tgtgacacaa atgcagtatg ctacacaaat aagttcaaag agtgtctagt 300
agttactcct ttttctatgt cttgcatgat gtttgctata gaaatatcca ttggtgctct 360
ccattcctta agaagataat cgtgctgtga tgagagccat tcttgatgtt tatttctcac 420
aaactcttca ctcttcgatg aactt 445
```

<210> 12012  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12012

agcttggttc ccaatgctnt gttcaagctc tttcaatacc tataaggtaaa tctaggatct 60  
ctatcagata ctatgctaga tggcacacca tgtaacctga caacctcact tatatacaag 120  
gtgggtcaact tctccaagga aaatctgata ttaatgggaa tgaagtgagc agacttagtc 180  
aatctgtcaa caataaccca gatagaatct aaacctctag gggttctagg tagccctacc 240  
acaaaatcca tggaaatact ttcccacttc cactgnggta tctctaaggg ttgtaacttc 300  
cctgaagatc tctaattgtc tatcttagcc ttctgacaga ctangcttgc atacacaaac 360  
tactaaccct ctctctttca tgtggggcac caaacatcg tctttaaatc ctgataccat 420  
cttgagcac caagatggat gctcaaatta ctccaatgtc ctccctctaa gatcatc 477

<210> 12013  
<211> 314  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12013

ctcacaagct gctcanagaa gttcataagt tgtaaaagct atttggatgc aagtcaaaga 60  
cttgctttta tagactcttc atgtctagtc aagagaacca ttggaagagt tattatcttg 120  
agaaaatctt gagaaagcca ttggaagagt tacatctctt gatcttgtat tcataacttg 180  
ccgcttggtg tcgattacca taaccatgta atcaattaca caatgcattg tatgacaaga 240  
tgtgactctt cacaattgaa tttgaatttc tacgttcaga tacactggta atcgattacc 300  
aatatattgt aatc 314

<210> 12014  
<211> 450  
<212> DNA  
<213> Glycine max  
<400> 12014

ttcagcttca cccacctatt gagcacaatt aatcatggag aatcttctga agtcataacc 60  
aattaaccat tacttaaaca tattaacata agaaataaat gagttaaca aggatactgc 120  
tagaatatat gaaaaattat ccaaaaatat cttgatttta attttaaaat aattcagaat 180  
atctaggatt aggactacct gtttgggatt aacttcata ttttctaatt tttcatgatt 240

tgtaatcata cctagcagta gtttaaataa ggattttgta acacatataa cacatcatat 300  
 caaatcaatt aaaaagtcaa atttccatgt ataaattttc ttttatttcc ctttcctccc 360  
 tctatactta aaaccttata attccgactg atacacagat agagacatac ccattttgat 420  
 gtcaaggaag ctgctgtgac attaaaaaat 450

<210> 12015  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12015

tggagtttcc aagcgccaat tCGtcttctt cnttagtcca gtcttcttct ggcttcaatt 60  
 catcagtggg ctttccttct gtgtccagca tcttgggatg ttcccagcct ttgatgacag 120  
 ctttccaggt tctgctatcc agtgatttga ggaaggccac cattcttget ttccagtatt 180  
 catagtgggt tccatcaaga aatgggtggc tgttcactgg tctccttct ttctccatgt 240  
 tcatcagaat ttatctccct agatctcact ctgtgatttc gagtgtttgc tctgatacca 300  
 attgaaattc tgataccacg ggacagatgt cgtaccggat gtcacgacat cacgcttcag 360  
 aacatgcaga ttagatgcgt ccgntgaac agattanaca agtaaataac acaagaagat 420  
 tgtaaccca gttcgggtgca acctcaccta catctggg 458

<210> 12016  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12016

agcttctagt gggacatctt gacttgctct ccaatctgac attcaccaca gattctgcct 60  
 tcttctatct tcagaatgng aatgcctcta acagcacctt tgacaatgat tntcttcatg 120  
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tcttttgag 180  
 gatagacatg tggaggagta gctgggttct tgggggtgtcc ataggtaaca attgtccttt 240  
 gatctgctgc ccttcattac aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
 gtgaagtta cattgaatcc ttcacacac agctgactga tgctgatcta agttgcagtc 360

agtccttca ccagccagac tttgttc

387

<210> 12017

<211> 411

<212> DNA

<213> Glycine max

<400> 12017

ccgctactcc catacatata aaaacaactc ttgaatctgg cttctcatcc agccatagta 60  
atatacctatc atgatgggct tgatccacat tttgggttatg ttgacccttc aaaataatca 120  
atggaccaac agcatacatt ggggggtgtgt gaatttgacc atcacatatt gcattaatag 180  
catactgctc tcaactctgaa aaagagatat caaagatccc tttggagtcc ttgtacctct 240  
gagcaatggt ataattagta gcatatccac cttgtttgtt taaaacagca tcaggcacia 300  
cactataatg aactggatca gggagacccg gttccaacca ctgatgatca gaatcatcga 360  
atgcatcacc aactctacgt ctctgaaggg ataacatgat attcaaaaac c 411

<210> 12018

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12018

tacggaccta tgaatactaa gctttagtagg agccacagag aatggtgaat cctaccattc 60  
ttgatatggt gaagaaagag gtgatgaagc tactagctgt agggatcatt tagcctatgt 120  
tagataaaaac ttgggttttca cctatccaag tggtccttaa gaagtcaggc atcattgttg 180  
tgggacttta ggataatgag ttgatcccg ctagaatgac caatagttag caagtttgta 240  
ttaattatag gagactgaac caagcaactc gcaaggatca ctttcctctc tcattcgtgg 300  
atcgggtttt ggagagggtg gtaggtaaat cacactatng atttcttgat ggttttatag 360  
gttacatgca gattcatatt gcattggagg actagcataa gaccacattc acttgtccat 420  
tcgacacatt tgcttacacc aagatgctta tg 452

<210> 12019

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 12019

ttaagcacct gagctgcagc tgccttgccc ttgatataatt gagggactta tggtcactat 60  
gaatgacaaa ttccttgga taaaggtagt gttgccatgt tttcaaagcc cgtactaagg 120  
catacaactc cttatcataa gttgaatagt taagggtagg accacttaac ttttactaa 180  
aataagcaat tggatggcct tcttgcatca acacagcccc aatcccaaca tttgaagcat 240  
cacactcaat ttcaaaagat ttttgaaagt ttggcaacgc aagtatgggg acattagtta 300  
gcttttgctt aagaacattg aaagcttctt cttgtttctc tccccatttg aaaccaacat 360  
ttntcttgag cacttcattg agagggtgtg ccaatgtgct aaaatccttc acaaactgct 420  
tataanaact tgctaagcca tgaaaactcc tcacctcggg cacagactta ngtgtatgcc 480  
attcttgaat agccctaac 499

<210> 12020  
<211> 268  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12020

attcacgcgc ataatatatc cagacgctcg aaattgaaca acgaatgctc tcgataaaat 60  
aaagtgggtca taatttgaca cacggaagtc cgattcaggc gcatactata tcgacgactc 120  
tctanattga acaacgaaag ctcttgagaa attcaaacgt gccaaacctt gtcacacggt 180  
agtccgattc acgcgcataat tatttcgaga ctctccatat gatatacgga agctctcgag 240  
aaattcaaat ggatcatatac ttatcaca 268

<210> 12021  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12021

tattatanna ctaattaaaa gactagaagc caacttatct ggtatgtcaa aaactataaa 60  
anaaatgtac tgacaattga aataatatat acttggtgta cttaacatcc aatttgaat 120

aatttggtttt aatgatctag caatacatac ttggattaca acaaaaaaaaa atgtacacaa 180  
acaatcaaaa tcaaactaat ctaaatatgt aatcagtcgt cctgaataaa gcagacctgt 240  
tatttttggtt taatgggtttt ggtatatagg tatctgggag acacagatga agctgttaaa 300  
tcaactgatca aggccgtgga tatactacgg attactcatg gcacagatac acctttcatg 360  
aaggacctct tgatgaagtt ggaagaagcc cgtgccgaag cgtcttacag attgtcncta 420  
aagagtatag aatgtcgaaa ta 442

<210> 12022  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12022

agcttggtgtg gtagcaaaaa tacctagggtt ttttctctta gattcgagtg aagtctgacg 60  
atattccgaa gactactttt aggaccggtt atggtcacta cgagtatcta gtcatgccct 120  
ttggtgtgac taatgctcca ggtgtgttta tggactacat gaataaagtc tttcaccctt 180  
actttgatag ttgtgtggta gtattcatag atgaatatatt ggtatattca aagactagag 240  
aggaacatga agagcacttg aggattatgc tgcttaccct tangaatcga caacttttat 300  
gctagttgtc caagtgtgag ttttggttag agaaagttag tttcctaggg catgtgatat 360  
ctcaaggggg tatagtngta gaccctcta agatagaaag tgttcttgag tg 412

<210> 12023  
<211> 403  
<212> DNA  
<213> Glycine max  
<400> 12023

actagatgcc ttggttaacc tggtaatcca actggtcatg aatcaaaaat ctacacctgt 60  
cgccagactc cgtgggttat gtcctctgac tgaccacctc ataaaccttt gcccttctgt 120  
gcagcaattg aacagcctga atcttatgct gcaaataact acaatagacc tcctcaacct 180  
cagcagcaaa atcagccaca acagaacaat tatgacttct ccagcaacat gtacaatccc 240  
tgggtggagga atcatcccaa ccttagatgg tcgaatcctt cacaacaaca acaacaaca 300  
caacaacctt attttcagaa tgttgctggc ccaagcaaac catatgttcc tccaccaatc 360

cagcagcaac aacaacaaca acaacaacag cccagaaat agc

403

<210> 12024

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12024

ggcagcaagc ttgttaatcc atcttctcca agagctcctt gataaagaac tntatgtgaa 60

tactgagatt taacacatca ataggaagga tgaaactcaa agaaacagtt attatcgcca 120

gtgaatttac taacactaag taaattcttg gtaagggagg gaactagcag taaattttta 180

agggagagag tagtgtttgg aaaatagggg gacctaaca gatttgagcc tatggaagag 240

attcttgtac ctgtgccatt agccattatg atatgttcat ttctgcagc ttgactgctc 300

tgaaggagaa tatgtggatc attggttgca tgggtggaag cacctgaatc tggaaaccaa 360

gcctgtgaaa tgtagcagt atgtgg 386

<210> 12025

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12025

agcttcatgc ttaagtatgc atggcaattc ttcattattg ttgntcaaga catacaagag 60

agcttgtaac aaatcttcta gacttggagt catcacatgc aatcctcttg aacccttacc 120

acccacctg tcatcatgcc gagactaacg aaggccatct agtatatcct tcttaatgta 180

ttctgaacaa aattcaatgg cttcttttgc aaagtacctc tcaacaatag atgcttcacg 240

acgatataca ttatttgtat accctgttaa gatctttatg tatcgctcaa ccgggtacat 300

ccatctgaga taaacaggac cacaccattt gatttctctg accaaatgct caatcaagtg 360

aatcactgat gccagagaaa gcagggtgaa tatacatctc caactggcac aatat 415

<210> 12026

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 12026

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ccgagcatgc tgcagctatg atatgcccga catctgacat ccgagcgata ggttacgacc 60
atttgaatct gtcgagagct ttcgatgata agctaccagc gtcccgacat attatgcgcc 120
cgagtcggac atccgtgtga atacttatga ccccttgaat gtctggagaa catccgatgt 180
tcagtttcta acgtctctat atgtgatgag cccgaatcag acatccgtgt gataagttct 240
gaccatatga atgtctcgag agcttccgat ggtaattac gagcgtctat atatattata 300
agcgtgaatc cgacctgagt gtgaaaagtt atgaccattt gagtntctcg agagctttcg 360
tcgttcattt ctagcgtctc tatat 385
```

<210> 12027  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<400> 12027

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agcttatata tatcgaggcg ctcgtaactg acttctgaag ctctcgagaa atacaaatgg 60
tcgtgatctt ctactaggat gtccgattga ggctcattac atatacagac gcgtcgatat 120
gaacaacgga ctctcttgag ataatacaat ggacatatac ttacgcgctg acgtccgata 180
catgcgcatac acattgtcac accctctgaa ttg 213
```

<210> 12028  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12028

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atcgtaaccg agcctctant tttcatcaac attaattagc aagcagtgag ctttttaata 60
ctctctgtgt tgcataataa tcattattta atattttaac ataaattaga aaataataat 120
tcttttaatg taatattaaa tcatttttta cttatatttc ttatatatta aagataaata 180
ccaaaaacta aaaatgaatt aatatgataa taatgttaat ttataaaaat tcgttatttt 240
ctatttttta atggatnttt tttatctgga caaaataact aatacacgtg aagacaaagt 300
gagttcatatc tgaatatgct tatgcaaaaa gtgtttacac tataacctac at 352
```



<210> 12029  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12029

agcntttgtga tttcttcaag attatcttca ctatattgca tnntgctgct tcaatttggc 60  
 ctgcagattt cacaaataat acatttacta tgcttatttg gtaggtttaa attttcattt 120  
 ttttaagggg ggtataattt tttattaaaa gtcattgtat ttttttagaa ttntatttta 180  
 tgtgagggtca acttaagttt tttattttac acaaagttaa tttattttat tgccatatta 240  
 tccaattcat taatttgatt tagcaacaca ctgaatttct ataagtgtta atatttagca 300  
 acatattctc tagcacatct tttatatcac acattntatt atagattaaa atttattaaa 360  
 nactacaaaa ttaaaagaaa aataactcat taaataagaa gtgagactaa nnaaaaaatgt 420  
 gattttaata aatttaatca tcttaaatat atattaaatg agt 463

<210> 12030  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12030

agctntagct ctnntcttat tggataatgc tttttgagga agtctctntt caagtggatc 60  
 aaatcatttt taatgatgta tgtgtttcct cttcttttagc ttaataatgt ccagtatttt 120  
 gactctaaat aaaagataga gctaattatt attatttatt gttagaggaa attaaatcat 180  
 ttttattggt agagcttaat aatgtccagt attagttttt gttatcctcc tatatatgac 240  
 aacttttgat ctgactgttg ttaaattaaa agattagatt aaattacaat attatatacg 300  
 tgctatattt attgaatcaa ccacttgata catgaaacat agttcttatg tcaggaatca 360  
 agatctagaa aaaagaaaaac aaatgtacct aanaatatnt ctcattaact ntnntttaat 420  
 aaatatngta ttccttaacc acaaatcaat aactactcca tcatagattc t 471

<210> 12031  
 <211> 413

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12031

cgcacgtgat tcaactctatt cttagtctga atatttgtaa gtttctgttc gaatatgggt 60  
 ttacatgtct tcaactctgca gtacgaatga tgtgagaaat ttgtaggaca ttttacttca 120  
 atcatttttc ctttgactat cttctgaatg cagatcgcac ggaatgggtt ttgagagagg 180  
 ttgggggtgat actgctgaac ggggtattgga aatgatgcat ctgctattgg atattcttca 240  
 ggctcctgat ccttctacac tagagacttt tcttgggaga gtaccaatgc gtttcaatga 300  
 tgctatatta tctcctcatg gctactttgg acaagccaat gtcttgngtt cgctgacac 360  
 tgggtgggcaa gtatctcctt tgtcatatac cgataagact atttgagctg gat 413

<210> 12032  
 <211> 276  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12032

agcttctcga tatattatgc gcctgaatca tactctcggt taaaagttat gaccatatga 60  
 atttctccac tgtattccgn gtgacaagnt atgaccattt gaatttctcg atagcattcg 120  
 ttgtcaattt cgagcgtctc gatataattat gtgccagaat ccgacttccg tgtgacaaga 180  
 tatgaccatt ngaatttggt gagagcatcc tgtgctagaa ttcgagtatc tcgatataatt 240  
 atgcgcctga atcgacatc cgtgtgacaa gttatg 276

<210> 12033  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12033

agcttgcttc tacactntca tgtntcacta ctctgtaaat atatccatga tccttctcac 60  
 gtggtcaaatt tagacgacgt tcaagtaaag gagaacttga catatgaaac attgcctttg 120  
 aggatcaagg atagatggaa aaaaacttaa gagggaaaaa gatttcgttg atcaagggtg 180

tctggggagg tgcagcanga gacgaagcaa catgggaact aaagagtcaa atgcgagaaa 240  
ccaatccagc cttgtttgag tcaagtaaat tttggggatg aaatttgtaa aaggggtggga 300  
gagttgtaac gccctgaaat ttcgataact gaaaatagat gcctgatgta tntattgtat 360  
tagttaatta cttaa 375

<210> 12034  
<211> 466  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12034

agcttgtagg ccttgatct tcttcatcaa tgatatcatc tgcttcttga agatcatgga 60  
agtggaatgg agaaggaaga aagatgattg gagacgccac ttcaaggaga agataagtgt 120  
agaagctcac caccatagga agccatagat aagagcttga aggttgcaga agatgaattg 180  
atggagaggg agacaaggag catgaaatct tgtgcctcac aagaggtttg aactttgagg 240  
gttaattctc aaatgatcaa agttgaaaaa atgcacacac atgacctcta tttatagcgt 300  
aagtgtcaaa caaaattaga ggggaatttg aatttctatt caaatttcac ttgaatntga 360  
aatttgaatt gtggagccaa aatttcaacta attatgatta gtgaattnta gctatgggtc 420  
aaccactaa tccaagatca agtccaagat tctccactaa gtgtgc 466

<210> 12035  
<211> 355  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12035

agcttctgtt ttcaattacg agcgtctcga tattcttcgg ngctctatcc gacatccgag 60  
ttaaagttta ttgtcgtttg atttttctaa gagcttccct tttcaattac gagcgtctcg 120  
atatattacg ggacacaatc ggacacccgt gttaaagtt atggtcggtg gaatttgctc 180  
agagcttcta ttttcaatta cgagcgtctc gatatattac ggtactcaat cggacatccg 240  
agtaaaaagg ttttgtccgt tgaattctct cagagcttct gttttcaatc acgagcgttc 300  
tgatatatta cgggactcaa tcggacatcc gagtaaaagt ttggtcggtg aattt 355

<210> 12036  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12036  
  
 tcacttaaaa acccnncccta gtagtctttg ttagatgagt atattagctg ggcaacttca 60  
 cttaaaaaat ctaatatagt ataatagcct atatcacatc tttgtgaatc gtctattctg 120  
 gtacgcatca cctcttctgt caggcatttg tggagagggg ctgatgaaaa gtcccacatc 180  
 accaatgggc tcaatttttg ggggtgcaact tatatatttg ttgggcaaca tttcacttaa 240  
 tgccaattgg ttttaggatg aaatctagca gnagatatgt ttatagtgat tcattgagta 300  
 atcatgccaa attgcatttt attatatctc atgttttctt cac 343

<210> 12037  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12037  
  
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 agttattgtc gtttgacttt tctcagagct tttattctga atttcgagcg tctcgatata 120  
 ctacgggaca caatcggaca tccgagtaaa aagttattgt cgtttgattt tgctcagagc 180  
 ttctgttctg aatttccagg gtgtcgatat accacttgcc accatcggac atccgagtaa 240  
 aaagttattg tcgtttgaat ttgtcagag cttttgtttt cacatttgag cgtctcgata 300  
 tataacgaga ctcaatcgga catccgagta aaaagttatt atcgttt 347

<210> 12038  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12038  
  
 agcttgccct agttaagatt attaatttta ttcattaaat gacagtacat ttgtttcatg 60  
 ttttgctgtt ttacaaaaag agctaaaact actctgttgc acttcgtcta catatacctc 120  
 aacattacta tgcttaataa aatttggtga tcttagtaaa acataaagca ctttctcaaa 180

tattaagatc aaataacatt cagcgtatcc aagagatgca gccaaaataa ataatgagaa 240  
cattaataaaa ctgaattacc tcaacttaaaa tgagaacccc tttcttggat gcttgacacg 300  
caacaaattc atagctgaca agattcattc catcccttaa agatgtaaca agtgctacat 360  
ctaaattcga tgtgagtc 378

<210> 12039  
<211> 312  
<212> DNA  
<213> Glycine max

<400> 12039

ctttccattg ctaaatacaa agcatttgta accaaaaaca tgaacgtgtg aaattttggg 60  
tgttctacca ttaaacagct catatggagt tttctttaaa atgggtctta ttaaagccct 120  
tttcatgata tagcatgcag tgtaacagc ttcagcccaa aagtattttg gaagaagagt 180  
gtcatttaat aaggctctag caattttttc cttacaacaa ctccattttg atgagggggtt 240  
ctaggcgcag aaaagttatg ttcaatgcc a tgettatcac agaataattc agaattctta 300  
ttttcaaatt ca 312

<210> 12040  
<211> 343  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12040

ttctatgaca tgcnnnnnttt ataggcgatt cataaaagac atttcaaaaa ttgccaaacc 60  
acttagcaat ttactaaaca aggatgttgt gttagcattt gatgaagact gtttgggaagc 120  
ttttaatatt ctcaagacca ggctagtatc tgcccctgtg attatagcac tagattgggg 180  
gcaagagttc gaattgatat gtgatgttag tgactatggt gtaggtgccg tacttgggca 240  
gagaaagggc agagtttttc atgccatcta ttatgccagc aaagtcttga atgatgcaca 300  
aatcaattat gctaccaccg agaaagaaat gttaggaatt gtc 343

<210> 12041  
<211> 330  
<212> DNA

<213> Glycine max

<400> 12041

acattccatc aactatcctg ttgatgttgg caagagggta tgcggccttg gggcatgccc 60  
tattcagatc agtgtagtca gtgcacattc gtcatttgcc attcatcttt ttgaccatga 120  
caacattgac gagccaggta gaaaacctga catctatgat aaagtgtgca tgaaggagct 180  
tttcgacttc ttctttgaag gctttacgtc gttcttctcc catcttcttt ttcttctgtg 240  
atataagttt ggcttggggg aagatagcaa gtttgtggta gattatgccg aggtggattc 300  
ccgacatgtc aaatggctgc caagcaaata 330

<210> 12042

<211> 339

<212> DNA

<213> Glycine max

<400> 12042

cttctataga aaggagtagc taattttctt ttattgcctc atctctcaat gagctagtga 60  
agaagaatgt ggcatttact tggggtgaaa gataagagca agcctttgct ttgctcaaag 120  
aaaagccac caaggaactt gttctagctc ttcccgactt ttctaaaact tttgaaatgt 180  
gatgcctctg gagtgggagt tgcagttgta ttgttacaag gtgggcacgc tattgcttat 240  
tttagtgcaa aacttcatgg tgccaccctc aactacccca cctatgataa aaagctttat 300  
gtcttaataa gatactcaa aacttgggat cattacctt 339

<210> 12043

<211> 345

<212> DNA

<213> Glycine max

<400> 12043

taatactgat ggtacgcttt tggttatttc tgggacaagc aagatttggc ggaatcataa 60  
gggatgggtc tgggaattgg cacacaagtt ttatgggac ctgtggcctt acaacttcag 120  
ttcatgcaga gttactcgcc atctatcatg gtttgaagat agctagagac aaaggaattg 180  
aaagattgat ctgcaaatca tattcgaagc ttgattagga cctaactact ggagaaatca 240  
acttgtttca tcaatatctt cctaccatca tgctgatcca tttgttgaag cacatggatt 300

gggaggtgac ctttgagcac gtgtaccgtg aagggaacaa gtgtg

345

<210> 12044

<211> 395

<212> DNA

<213> Glycine max

<400> 12044

agctgactag tgaaggaagt tctatatatt tttcggcgcc aagatgggtca tatctgtttc 60  
ctgtgagaca aagttatgag ctgacagata gcgctcaact tccgatgcgg tagcataatg 120  
ggaaattccc gcctggcctg gttgcatgcc tagctcagcg taatggctac catctcaagg 180  
gtagttcacg aaagggatta ccttgtgect atgcagtaca tgcgagcaag gacgcgctag 240  
cgacgggtgta gggatcattg gatatagcta ctatcagcat agcatactgt aagaaggatt 300  
attttatatc gcaccatatg ataatttttt acagcagagt atagcatcta tccgggccta 360  
ttttaaattg tggaagggtg atttgtatat aactc 395

<210> 12045

<211> 329

<212> DNA

<213> Glycine max

<400> 12045

cacaatgagt actttggaat atggatatat ttggtgtcac caactcttgg agctgtggct 60  
ggtacttgag cctataattt cattaggtac acgaataagc cagcgcatga aatcaccaag 120  
agtgcctctt tcctcaaagg tggatgaagct gaggatgattca acagcaaag caagaatgtg 180  
gttttttctt cttcattttt ttatcttcaa tttcaccatg cattaggggtt aaaatttaag 240  
aaagaattac tgggttagtg tgctgaataa cctataata tagatagagg aaatgaaaaa 300  
tacagtttct cctaattcat gcaacaatc 329

<210> 12046

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12046

tctatagaan gnnagtccta atttctcttc tattgcatca cctctcaatg agctgggtgaa 60